

SERVICE
MANUAL PM54II/PM64II



model PM-54II/PM-64II

Stereo Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound.

Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

PARTS ORDERING

Parts may be ordered at the following addresses:

AUSTRIA	FINLAND	GREAT BRITAIN	SAUDI ARABIA	SWITZERLAND
HORNYPHON Vertriebsgesellschaft GmbH Wienerbergstrasse 1 A 1101 Wien Austria Telex: 132.332	MARANTZ DIVISION OF OY PHILIPS Ab Kaivokatu 8 00100 Helsinki Finland Telex: 124811	MARANTZ AUDIO U.K. Ltd Unit 15/16 Saxon Way Industrial Estate Moor Lane Harmondsworth UB7 0LW Great Britain Telex: 935196	AL ALAMIAH ELECTRONICS P.O.Box 5954 University Street Riyadh 11432 Saudi Arabia Telex: 201530	DYNAVOX ELECTRONICS Route de Villars 105 1701 Fribourg Switzerland Telex: 942377
AUSTRALIA	FRANCE	GREECE	SOUTH AFRICA	TURKEY
MARANTZ AUSTRALIA PTY., Ltd. 19 Chard Road Brookvale, NSW 2100 Australia Telex: 24121	MARANTZ FRANCE 4 Rue Bernard Palissy 92600 Asnières France Telex: 611651	SHERTON ELECTRONICS S.A. P.O.Box 21025 Hippocrates Street 188 Athens 11471 Greece Telex: 216.795	MARANTZ DIVISION OF PHILIPS S.A. Rainer House Ove Street, 10 Doornfontein Johannesburg Telex: 483.456	DOGRUOL Ltd. I.M.C. 6 Blok N°6310 Unkapani Istanbul Turkey Telex: 22085
BELGIUM	GERMANY	JAPAN	SPAIN	MALTA
SVD DIVISION MARANTZ Industrialaan 1 1720 Groot-Bijgaarden Belgium Telex: 24466	MARANTZ GERMANY GmbH Max-Planck-Strasse 22 6072 Dreieich 1 Germany Telex: 529821	MARANTZ JAPAN, Inc. 35-1, 7-chome, Sagamiono Sagamihara-shi, Kanagawa Japan	PHONO S.A. Ignacio Iglesias 10 Badalona (Barcelona) Spain Telex: 59355	CACHIA & GALEA Republic Street, 68D Valetta Telex: 1682
CHILE	THE NETHERLANDS	KUWAIT	SWEDEN	U.S.A.
MARANTZ DIVISION OF PHILIPS S.A. AV. Santa Maria, 0760 Casilla 2687 Santiago Telex: 240.239	Elpro b.v. De Limiet 3 4131 NR Vianen The Netherlands Telex: 47679	AL ALAMIAH ELECTRONICS Ussama Building Fahd al Saleem Street P.O.Box 23781 Safat-Kuwait Telex: 22694	MARANTZ DIVISION OF PHILIPS Försäljning AB Tegeluddsvägen 1 S-115 84 Stockholm Sweden Telex: 14060	MARANTZ COMPANY, Inc. National Service Department P.O.Box 577 Chatsworth, CA 91311 U.S.A.
DENMARK	NORWAY	ITALY		
MARANTZ DIVISION OF PHILIPS SERVICE A/S Prags Boulevard 80 Postbox 1919 DK-2300 København S Denmark Telex: 31201	MARANTZ DIVISION OF PHILIPS A/S Sandstuveien 40 Oslo 6 Norway Telex: 72640	MARANTZ ITALIANA S.P.A. Via Chiese, 74 20126 Milano Italy		

TECHNICAL ASSISTANCE

Should you require any other technical support, do not hesitate to contact the Technical Department of MARANTZ INTERNATIONAL

Quality & Service Dept.

80, Rue des Deux Gares,

B-1070 Brussels

Belgium

Phone: 02/525.70.22 or 525.70.23

Telefax: 02/525.6160

Telex: 23550 OR

61511 (PHEMB) routing: BELDMZT

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

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How to use this service manual

- The "Common parts" which Marantz Japan, Inc. has established are eliminated from this service manual.
- These "Common parts" are applied to all models in the service manuals arranged and issued by MJI.
- To indicate clearly the common parts in the schematic diagram, a line is drawn above or under the Ref. Desig. No. of applicable parts.
- "Common parts" can be supplied from the Marantz service center as ever.
In case of ordering, please establish the parts number of 10 figures following the procedure mentioned in this service manual "How to establish the parts number for common parts".

(NOTE)

When you order parts to the Marantz parts center, please take notice of the following points.

- 1) Please correctly write the parts number of 10 figures following the rule.
- 2) Since ordering parts by the Ref. Desig. No. or ratings indicated in the schematic diagram does not satisfy the above conditions, the Marantz parts supply system does not work properly.
As this case is apt to cause a trouble, please pay attention to it.

MODEL PM-54II/PM-64II STEREO AMPLIFIER



Model PM-54II



Model PM-64II

INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model PM-54II/PM-64II Stereo Amplifier.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model PM-54II/PM-64II consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

(Model PM-54II)

1. Tone Volume mounted on P.W. Board PE01
2. Tone Defeat Switch . mounted on P.W. Board PE51
3. Balance Volume mounted on P.W. Board PG51
4. Tape Monitor mounted on P.W. Board PJ01
5. Volume &
Push Switch mounted on P.W. Board PS01
6. AVSS mounted on P.W. Board PU01
7. Phono,
Input Selector mounted on P.W. Board PV01
8. Speaker Protector mounted on P.W. Board PW01
9. Speaker Switch &
Phone mounted on P.W. Board PW51
10. Input Selector
Display mounted on P.W. Board PY01
11. Main Amp mounted on P.W. Board P701
12. Power Supply (Sub) mounted on P.W. Board P801
13. Power Supply mounted on P.W. Board P851
14. Power Switch mounted on P.W. Board P901

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM-54II/PM-64II Stereo Amplifier.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer (0 ~ 140V AC, 10A)	Adjust level of primary power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

3. ADJUSTMENT PROCEDURE

3.1 Idling Adjustment (Model PM-54II)

1. Connect DC digital voltage to test point R737 (L-CH) and R738 (R-CH) terminals.
2. Turn POWER SWITCH to ON, and adjust R719 (L-CH) and R720 (R-CH) to 6mV 30 sec. later, and to 7.5mV 1 min. later.

Note:

When adjusting, have output with no load, input to open, and volume on minimum.

3.2 Idling Adjustment (Model PM-64II)

(Model PM-64II)

1. Tone Volume (L) . . . mounted on P.W. Board PE01
2. Tone Volume (R) . . . mounted on P.W. Board PE02
3. Tone Unit mounted on P.W. Board PE50
4. Tone Defeat Switch . mounted on P.W. Board PE51
5. Tape Monitor mounted on P.W. Board PJ01
6. Volume/Push Switch . mounted on P.W. Board PS01
7. Master Volume mounted on P.W. Board PS02
8. AVSS mounted on P.W. Board PU01
9. Phono Input Selector . mounted on P.W. Board PV01
10. Speaker Protector
Relay mounted on P.W. Board PW01
11. Speaker Switch/
Phone mounted on P.W. Board PW51
12. Input Selector
Display mounted on P.W. Board PY01
13. Main Amp mounted on P.W. Board P701
14. Diode Bridge mounted on P.W. Board P801
15. Power Supply mounted on P.W. Board P851

1. Short-circuit the two pins in the AVSS board (PU01) marked CLASS A and CLASS B.
2. Adjust the main board (P701) semi-fixed resistors R719 and R720 so that the voltage between the ends of the emitter resistor is within 14 to 15 mA.
3. Immediately remove the short and adjust semi-fixed resistors RU35 and RU36 for a voltage of 100 mV between the ends of the emitter resistor.
(Do this in the shortest time possible.)
4. Short-circuit the two pins in the AVSS board (PU01) marked CLASS A-25W.
5. Adjust semi-fixed resistors RU33 and RU34 for a voltage of 174 mV between the ends of the emitter resistor.
6. Finally, remove the short.

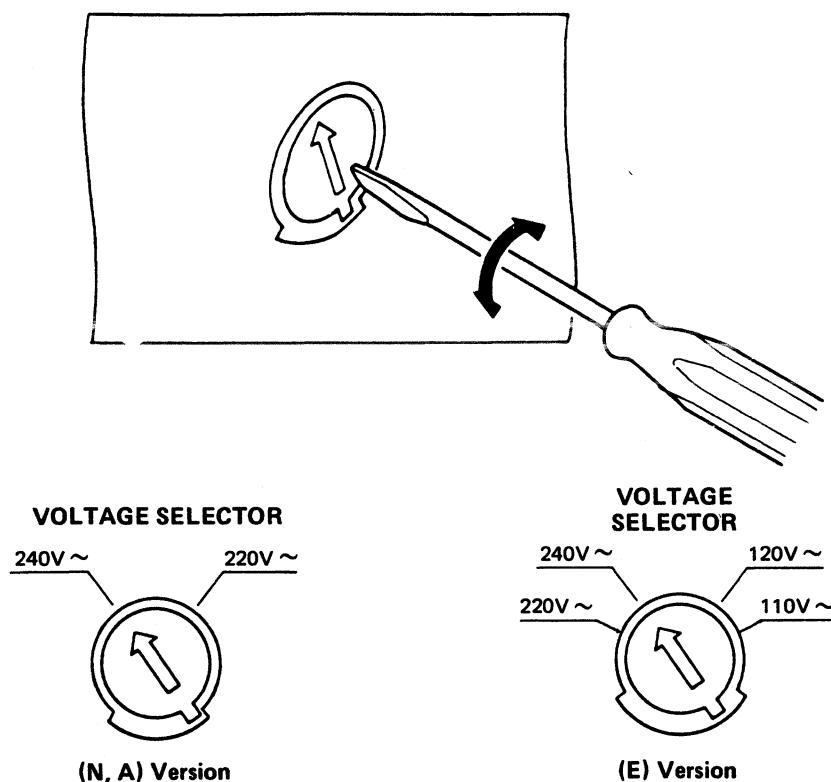
4. VOLTAGE CONVERSION

• EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

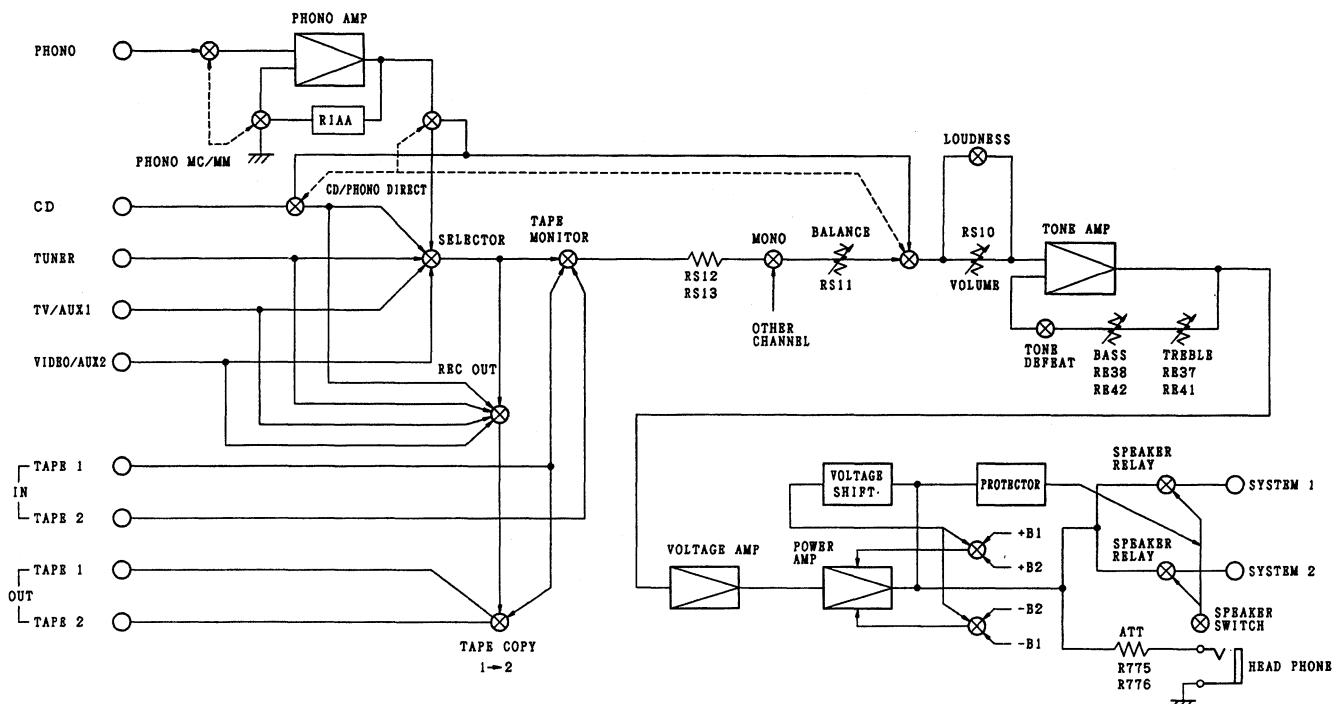
Voltage Conversion Chart



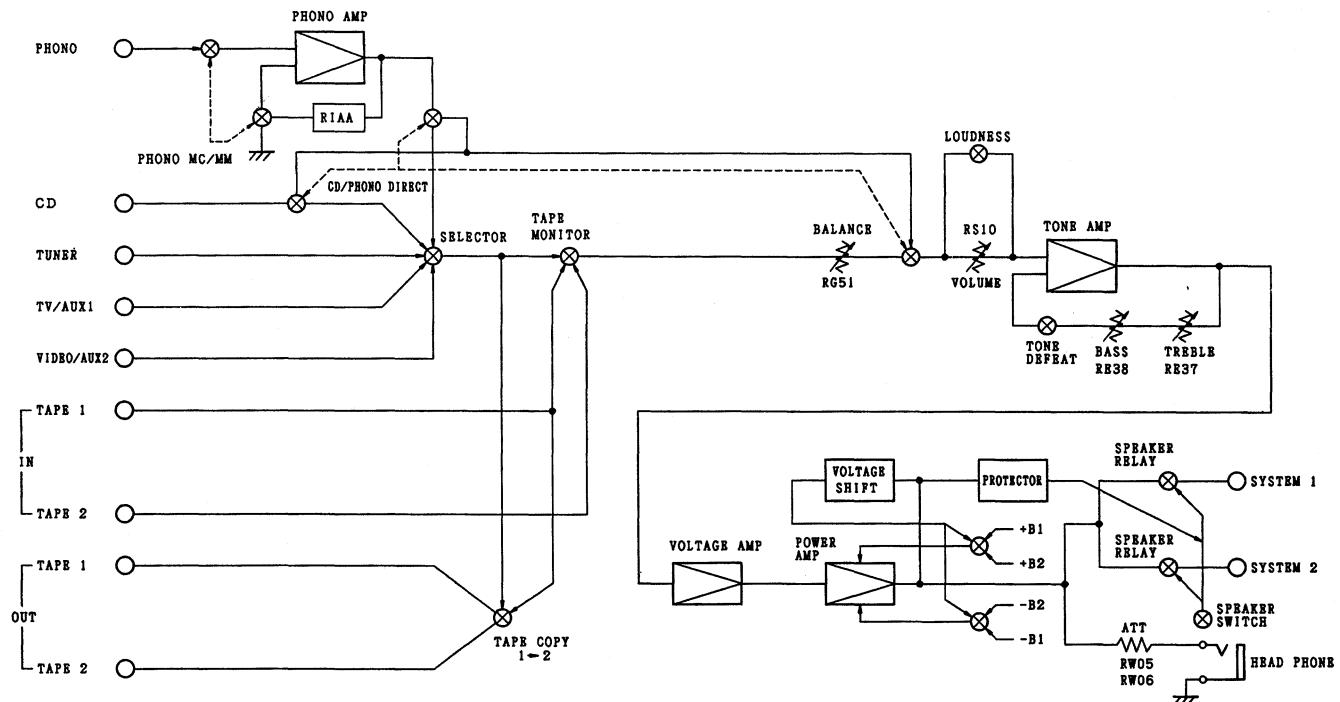
Note on safety: Symbol Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

5. BLOCK DIAGRAM

(Model PM-64II)

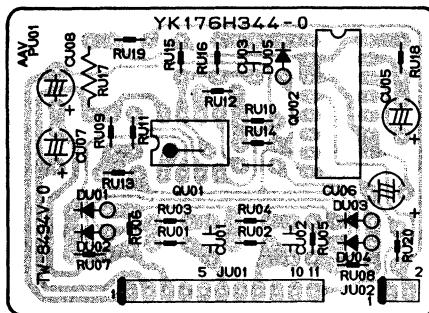
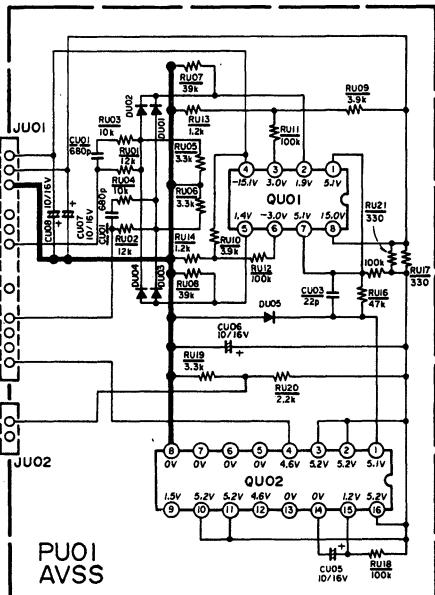


(Model PM-54II)

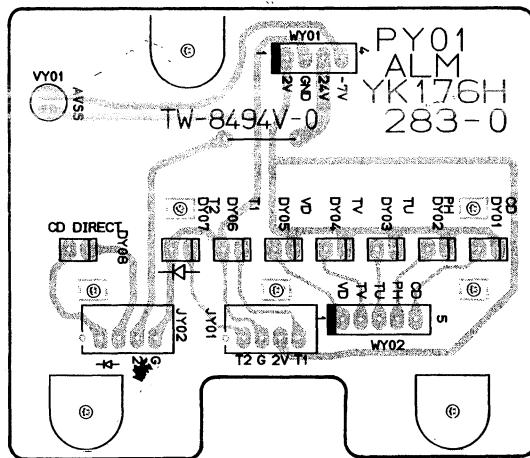
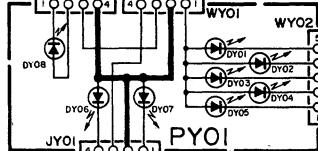


6. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

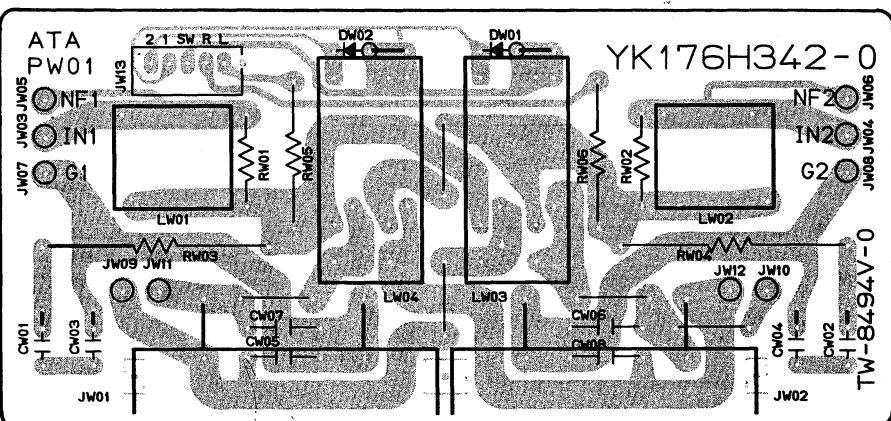
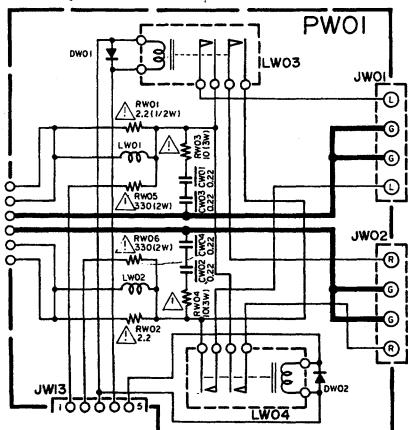
6.1 AVSS Assembly (PU01) Schematic Diagram and Component Locations (Model PM-54II)



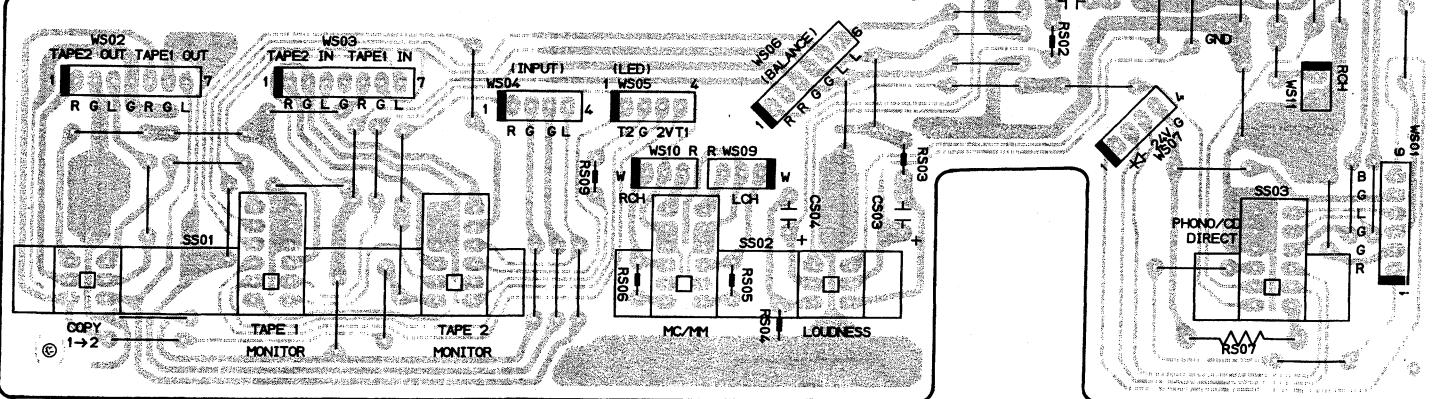
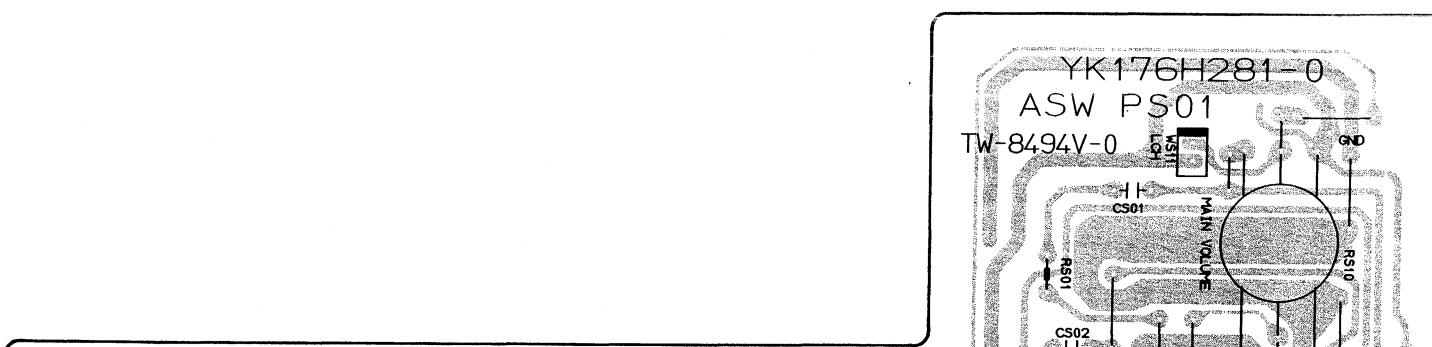
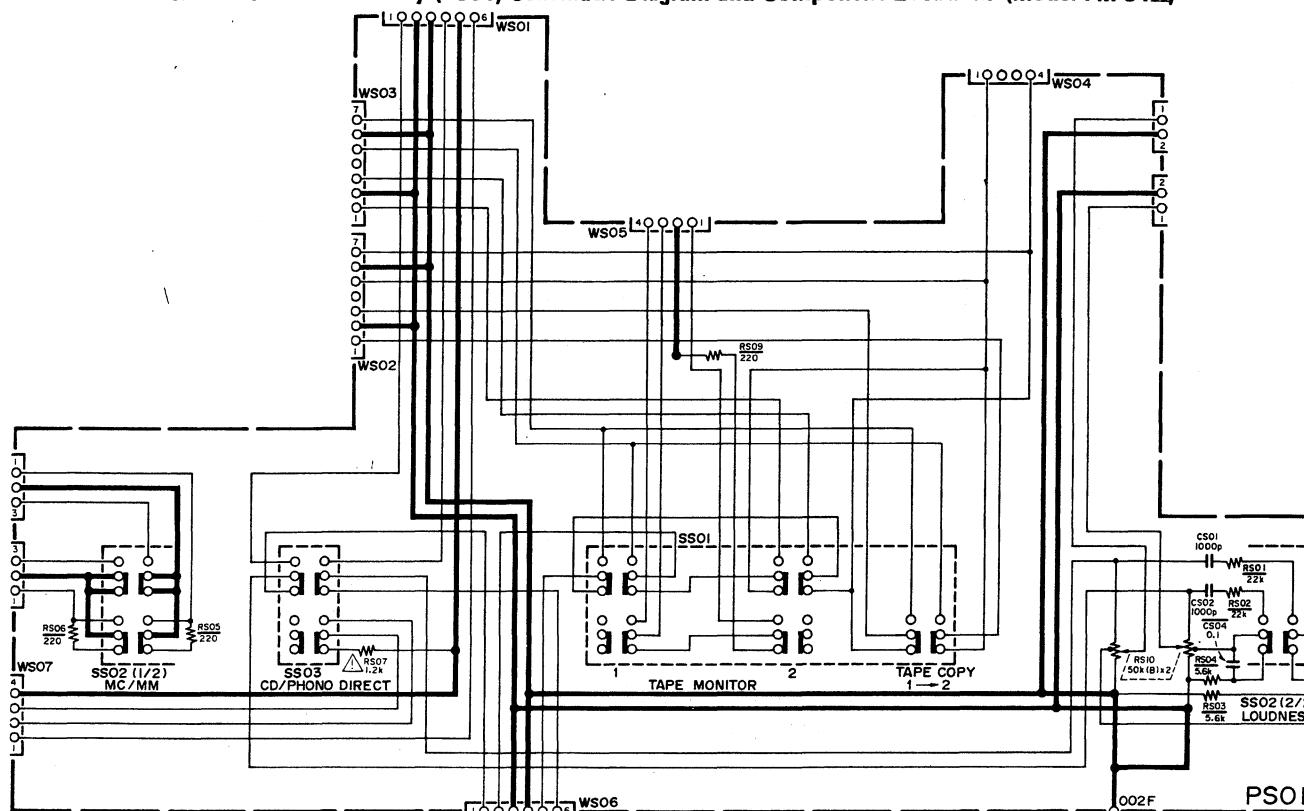
6.2 Input Selector Display Assembly (PY01) Schematic Diagram and Component Locations



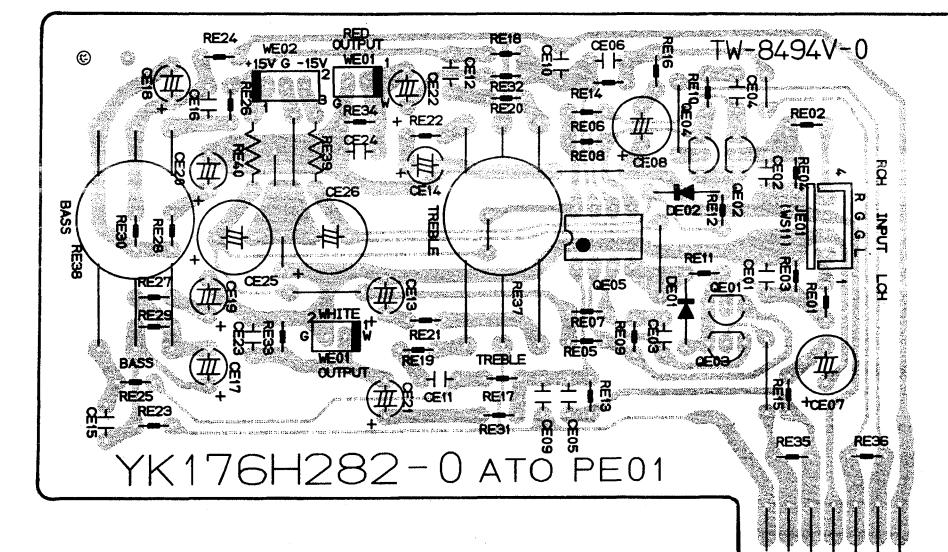
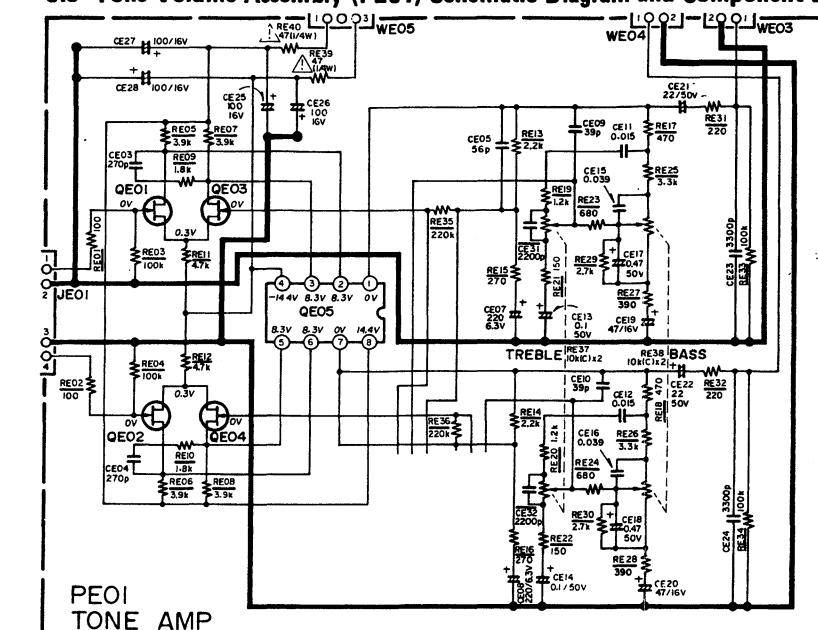
6.3 Speaker Protector Assembly (PW01) Schematic Diagram and Component Locations (Model PM-54II)



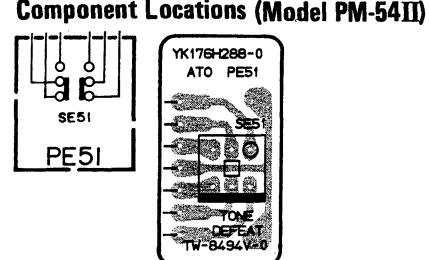
6.4 Volume & Push Switch Assembly (PS01) Schematic Diagram and Component Locations (Model PM-54II)



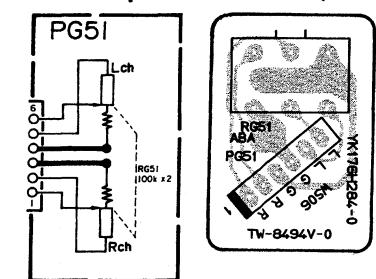
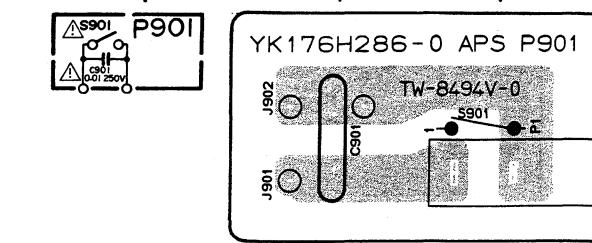
6.5 Tone Volume Assembly (PE01) Schematic Diagram and Component Locations (Model PM-54II)



6.6 Tone Defeat Switch Assembly (PE51) Schematic Diagram and Component Locations (Model PM-54II)

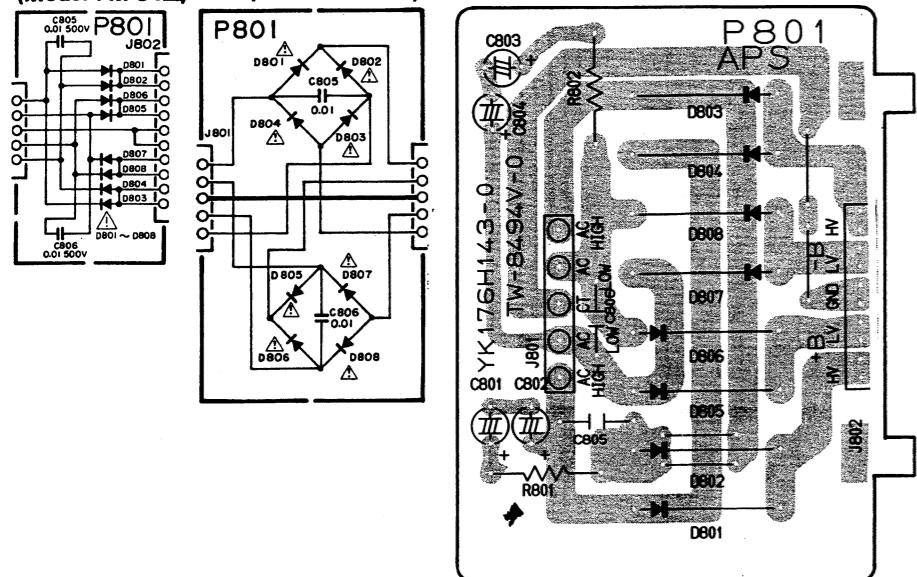


6.7 Power Switch Assembly (P901) Schematic Diagram and Component Locations (Model PM-54II)



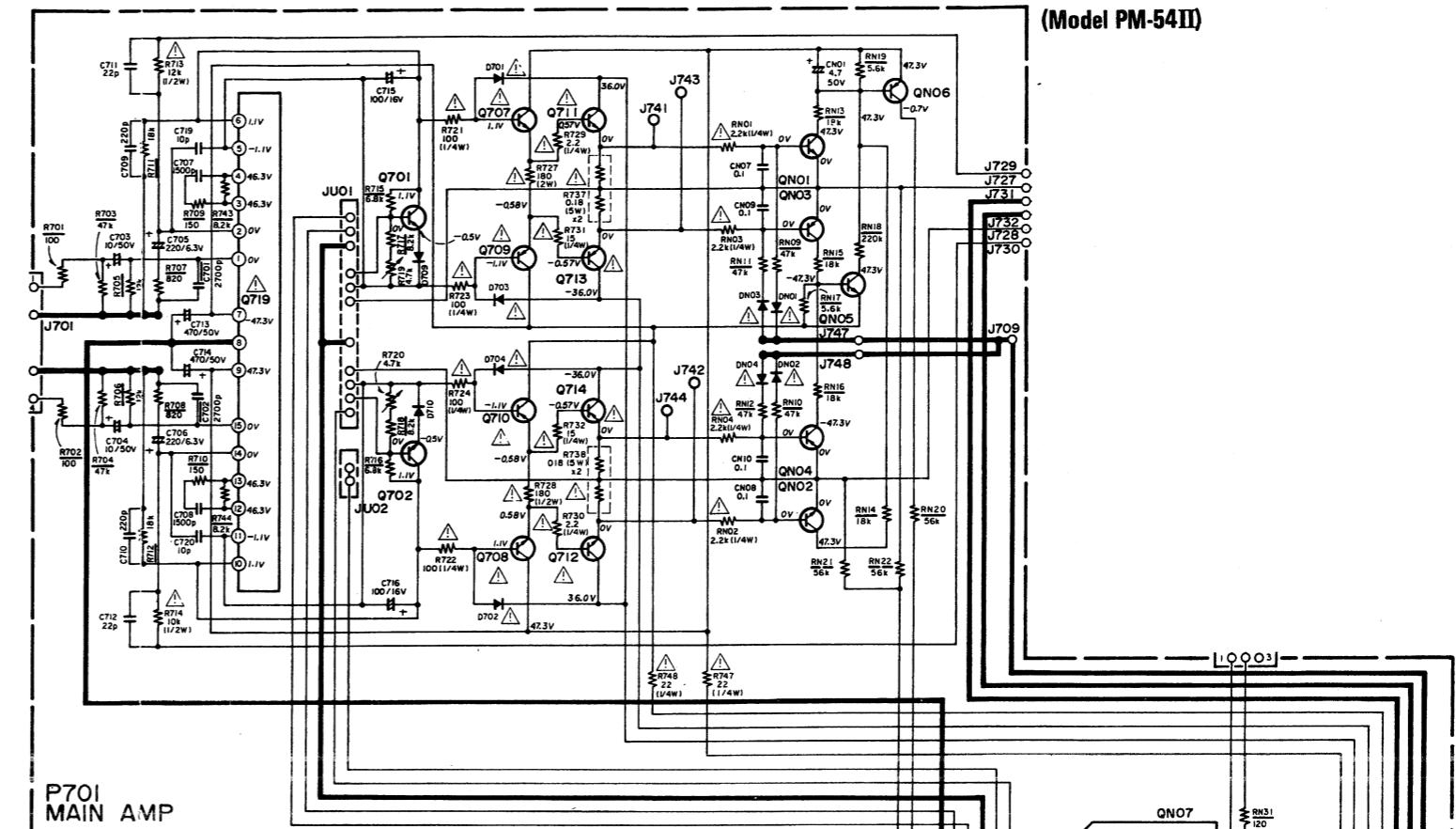
6.9 Diode Bridge Assembly (P801)
Schematic Diagram and Component Locations

(Model PM-54II) (Model PM-64II)



6.11 Main Amp Assembly (P701) Schematic Diagram and Component Locations

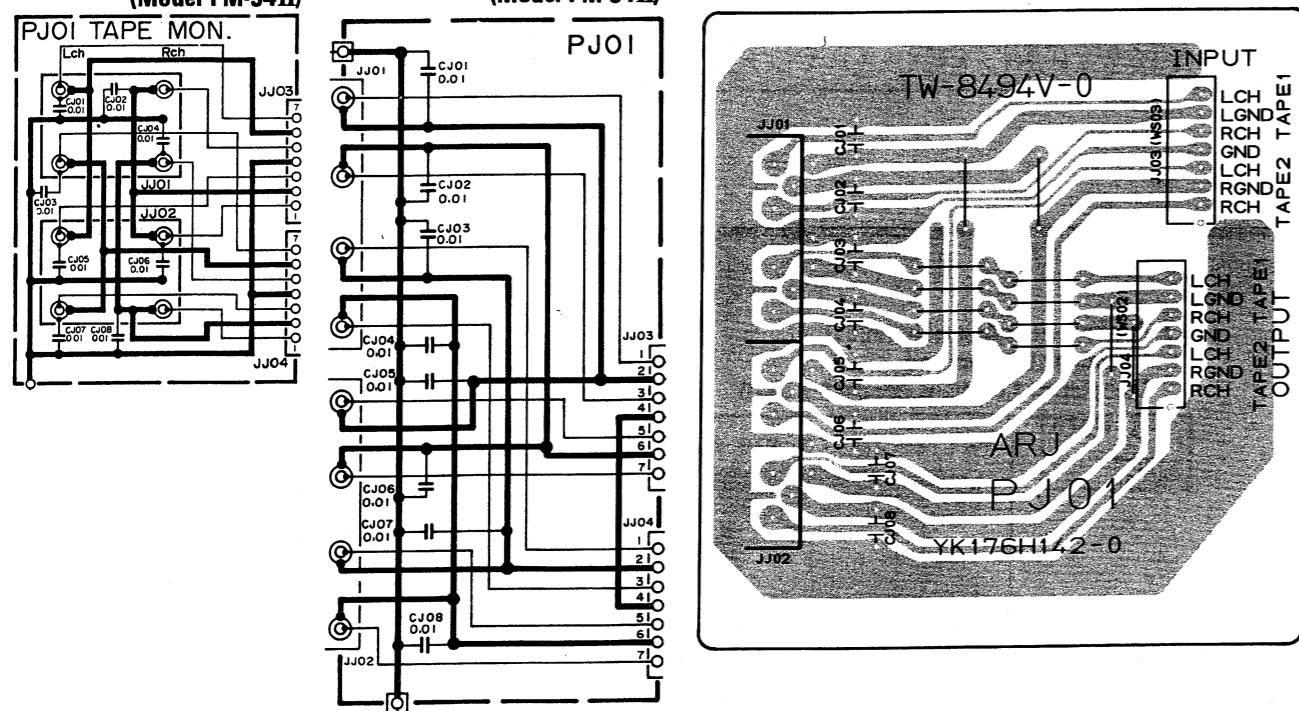
(Model PM-54II)



6.10 Tape Monitor Assembly (PJ01)
Schematic Diagram and Component Locations

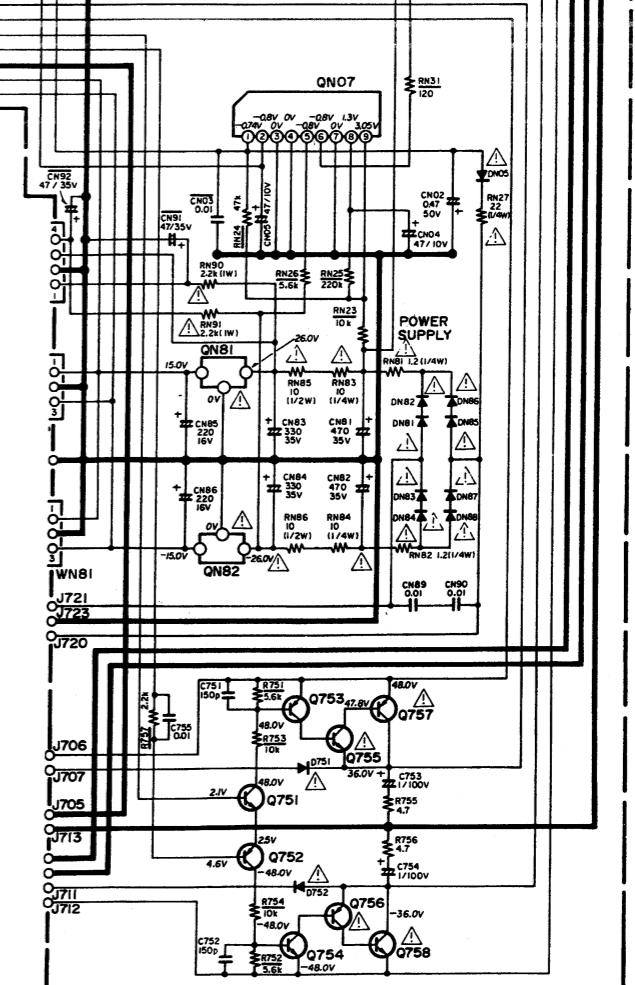
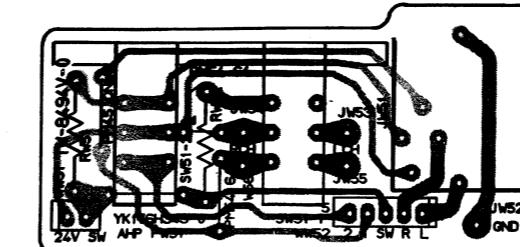
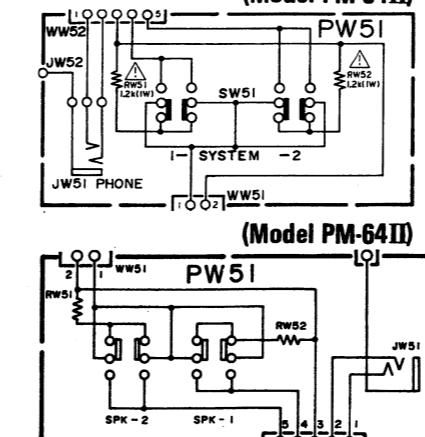
(Model PM-54II)

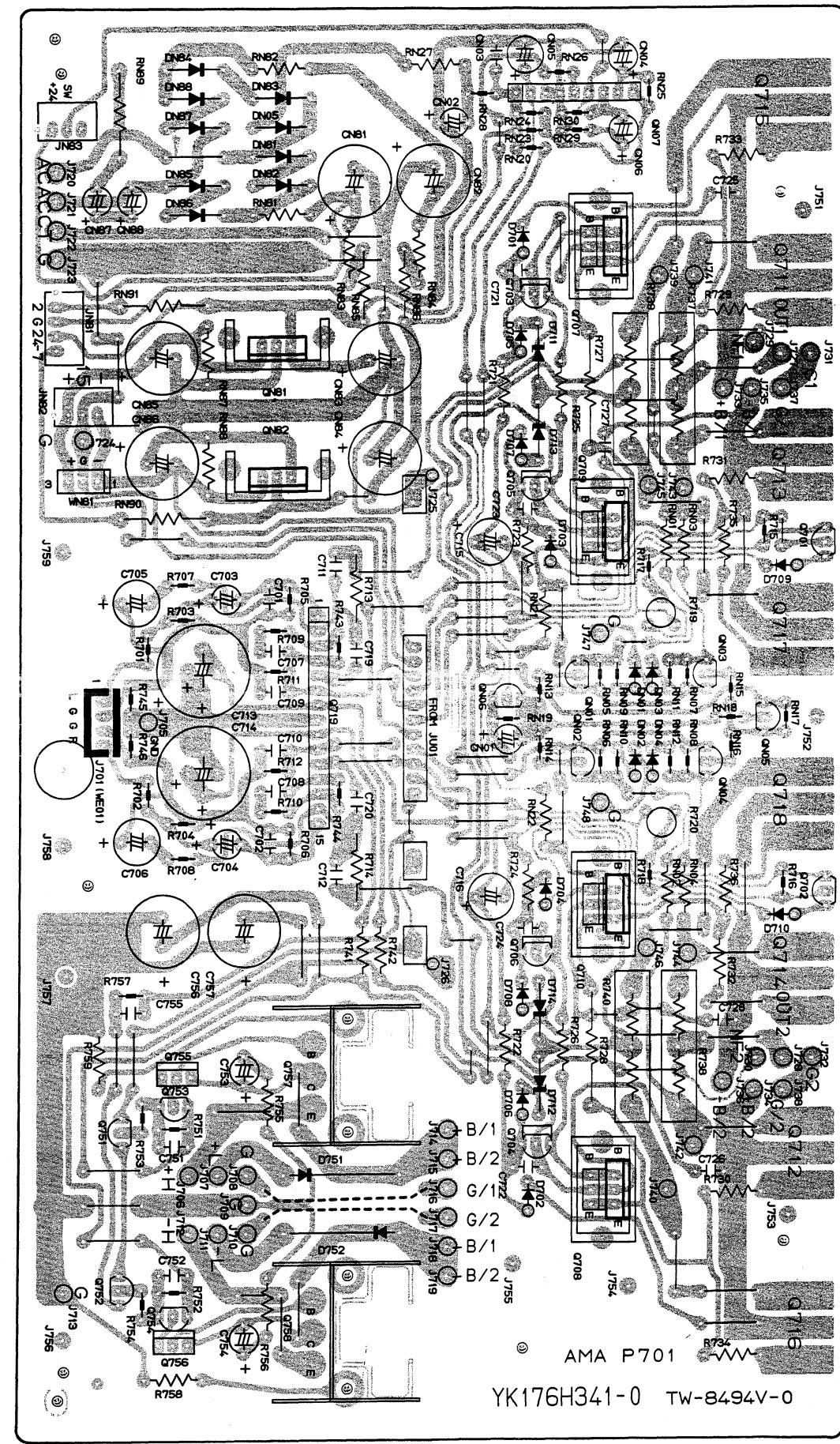
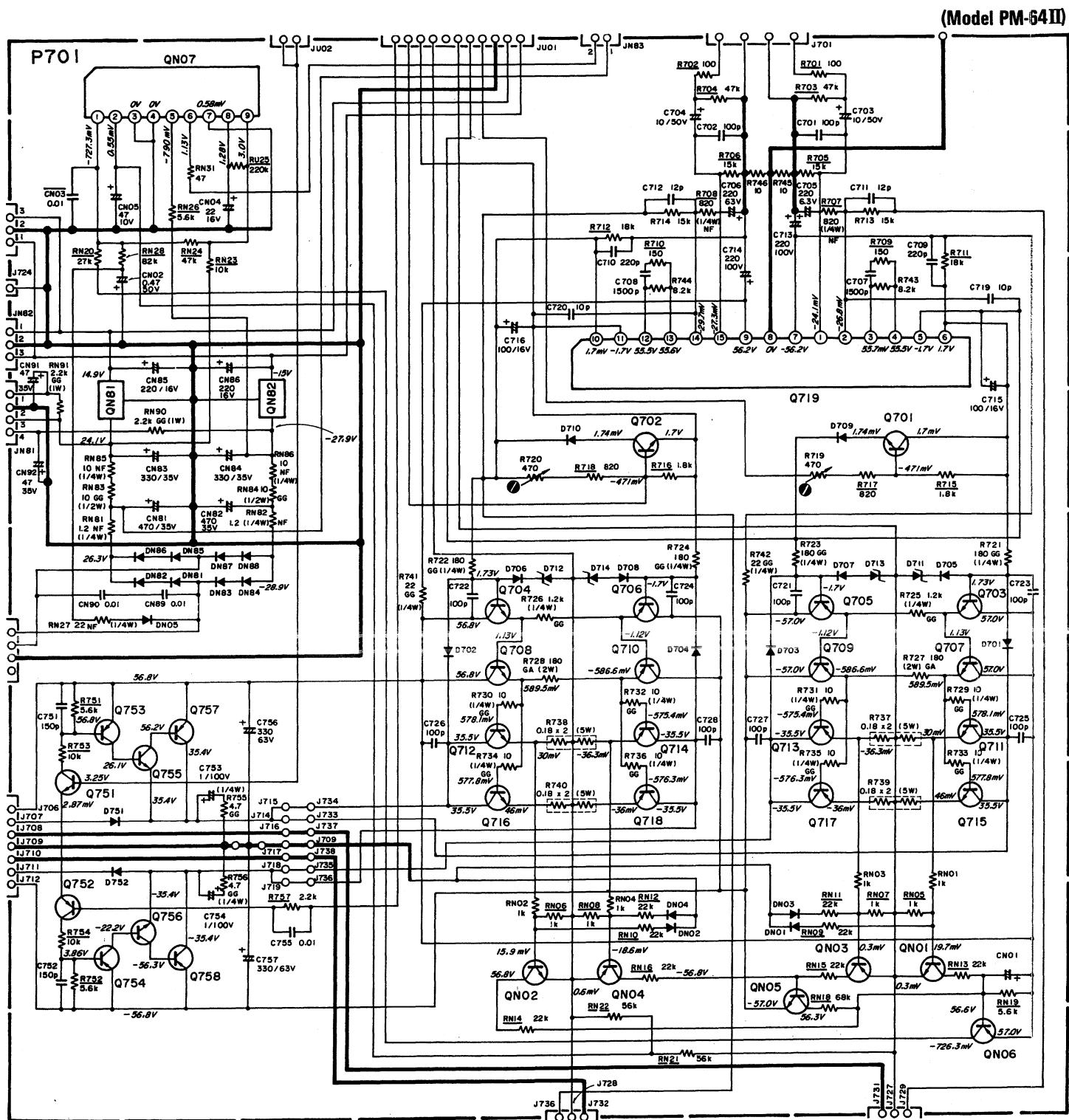
(Model PM-64II)



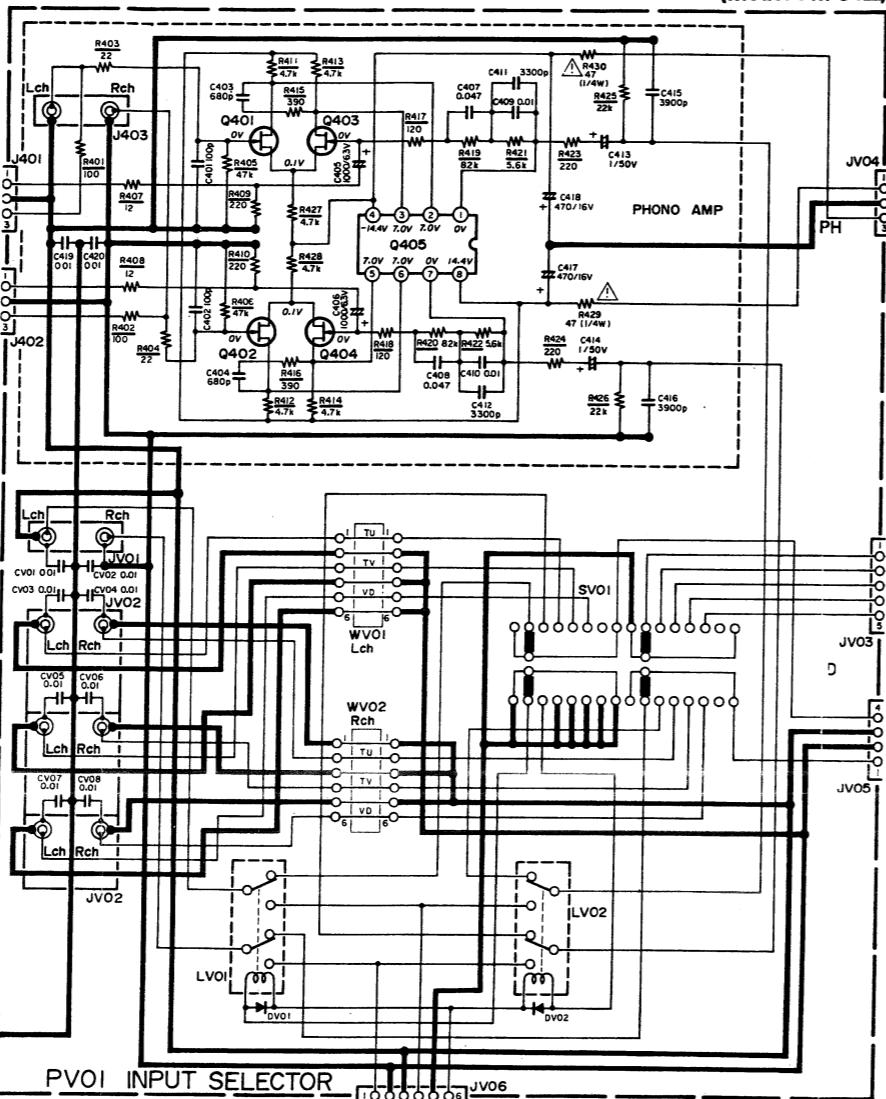
6.12 Speaker Switch/Phone Assembly (PW51)
Schematic Diagram and Component Locations

(Model PM-54II)

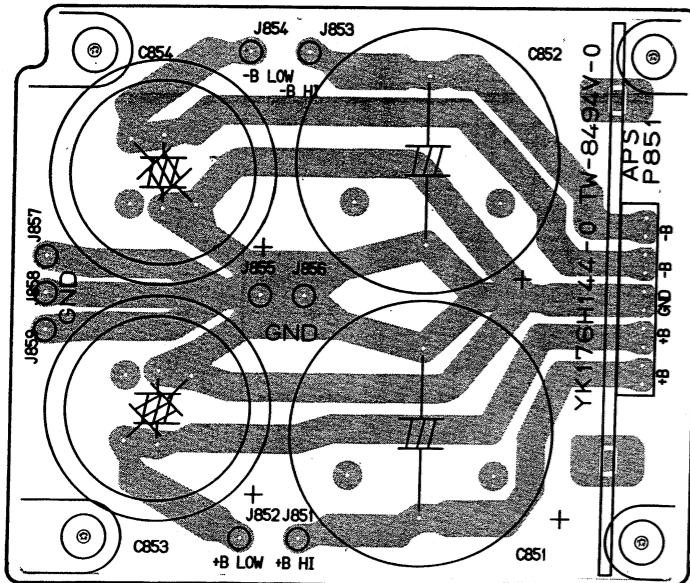
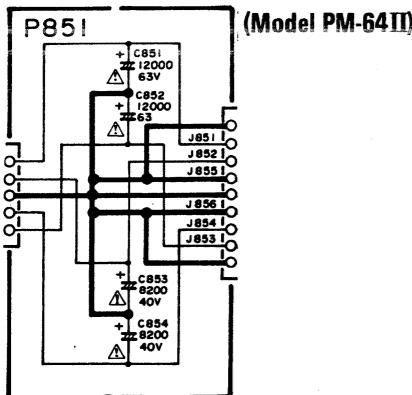
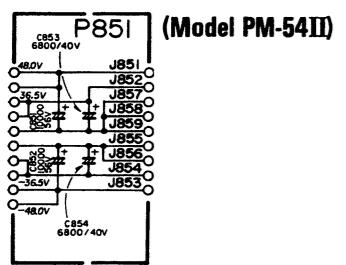




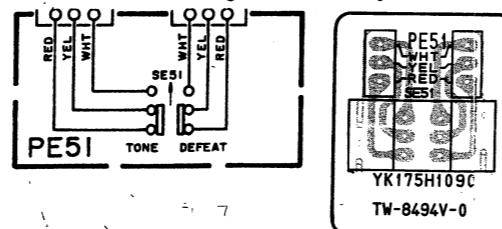
**6.14 Phono Input Selector Assembly (PVO1) Schematic Diagram and Component Locations
(Model PM-54II)**

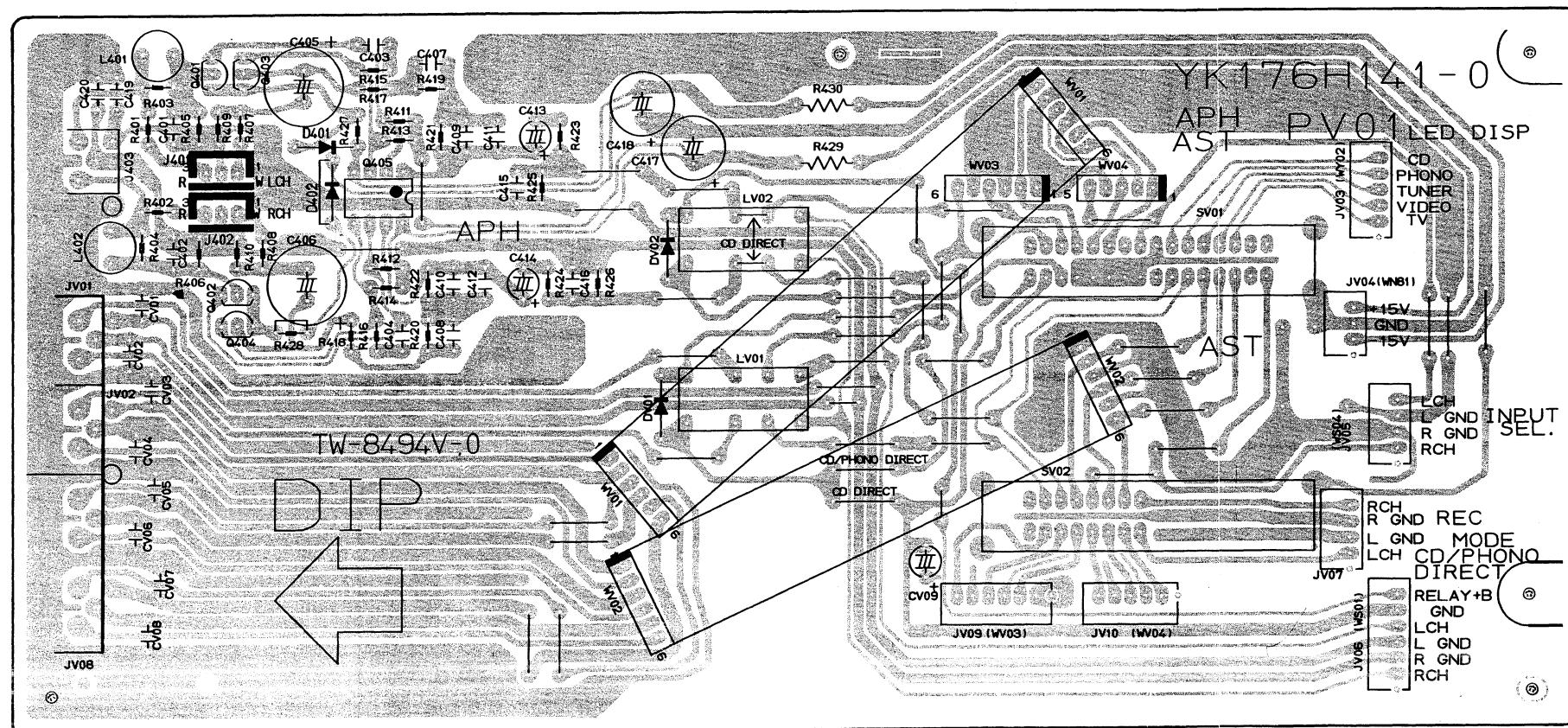


**6.13 Power Supply Assembly (P851)
Schematic Diagram and Component Locations**

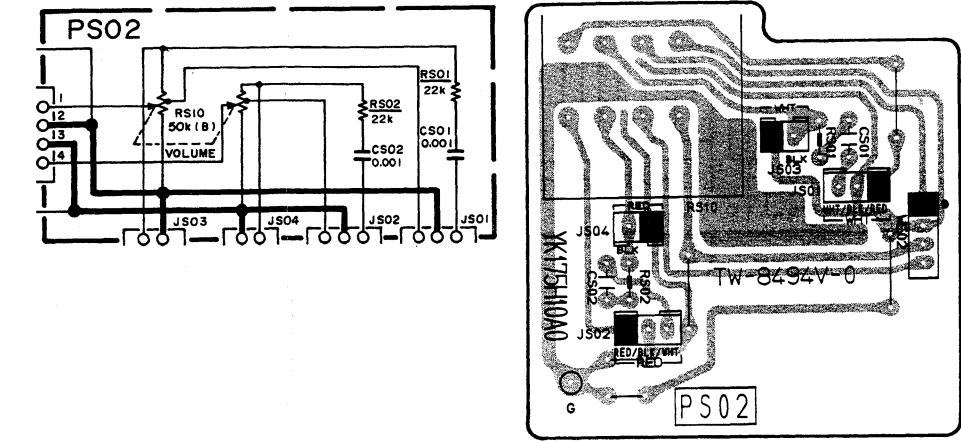


**6.15 Tone Defeat Switch Assembly (PE51)
Schematic Diagram and Component Locations (Model PM-64II)**

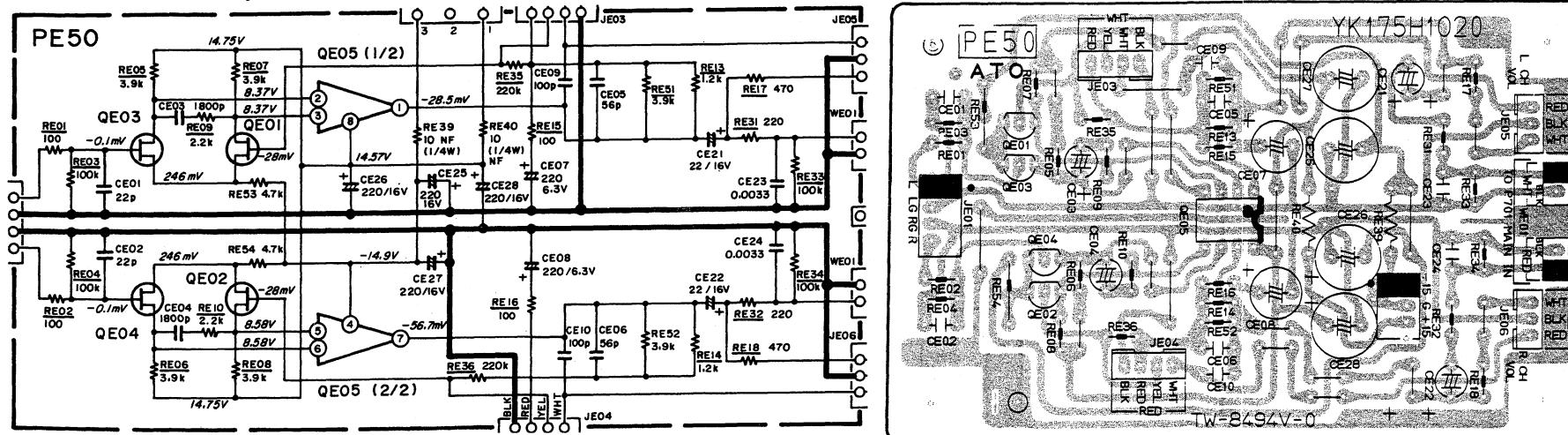




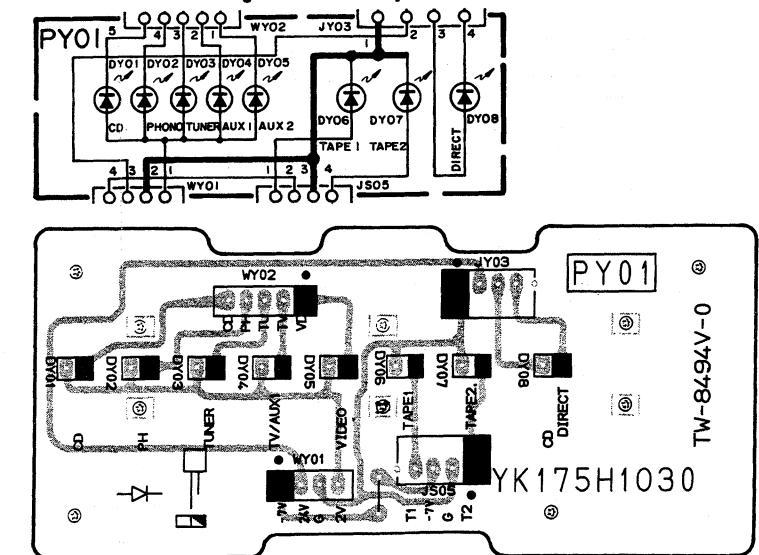
6.17 Master Volume Assembly (PS02)
Schematic Diagram and Component Locations (Model PM-64II)



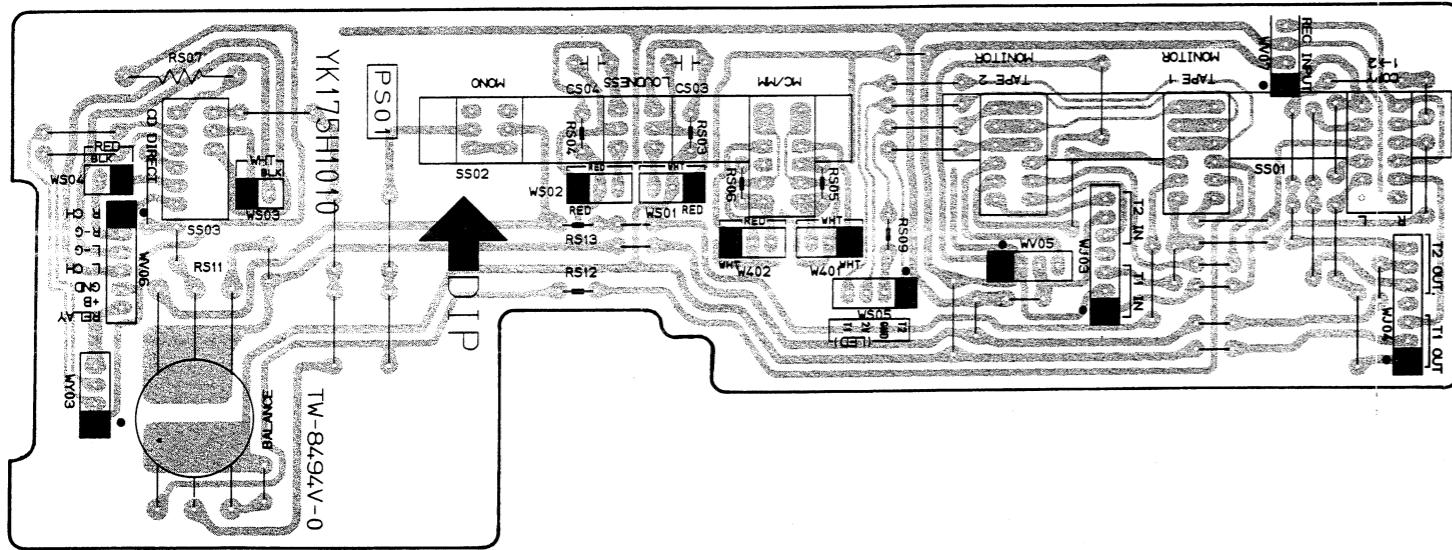
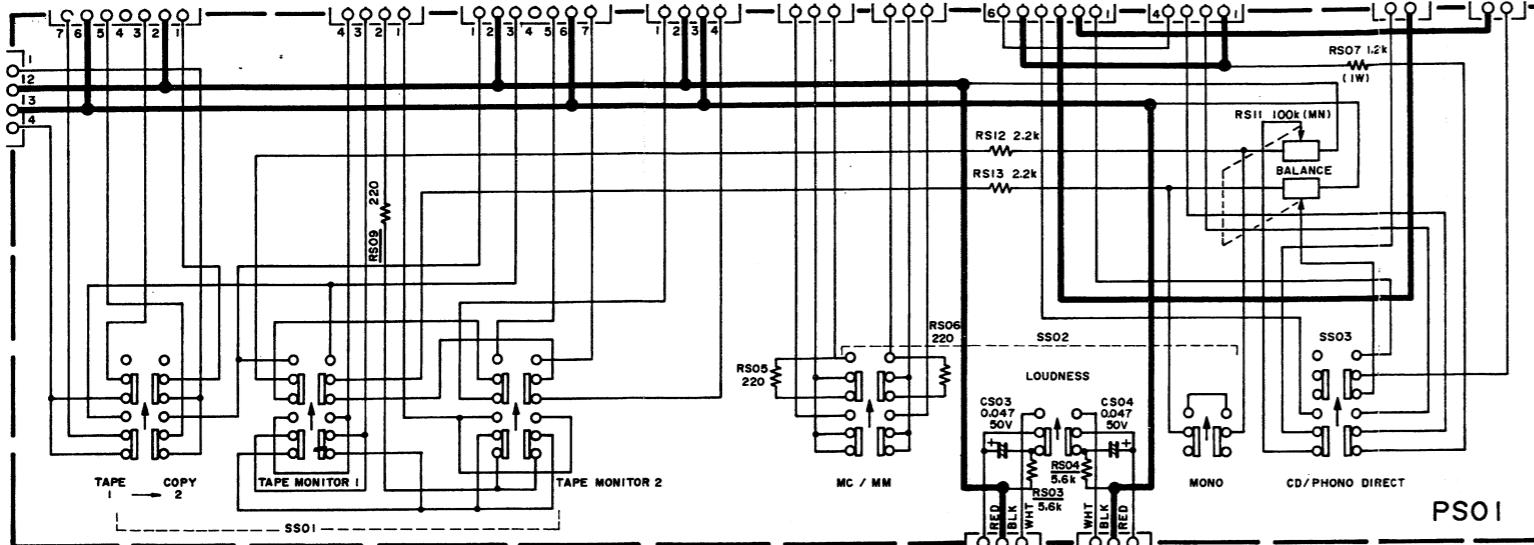
6.16 Tone Unit Assembly (PE50) Schematic Diagram and Component Locations (Model PM-64II)



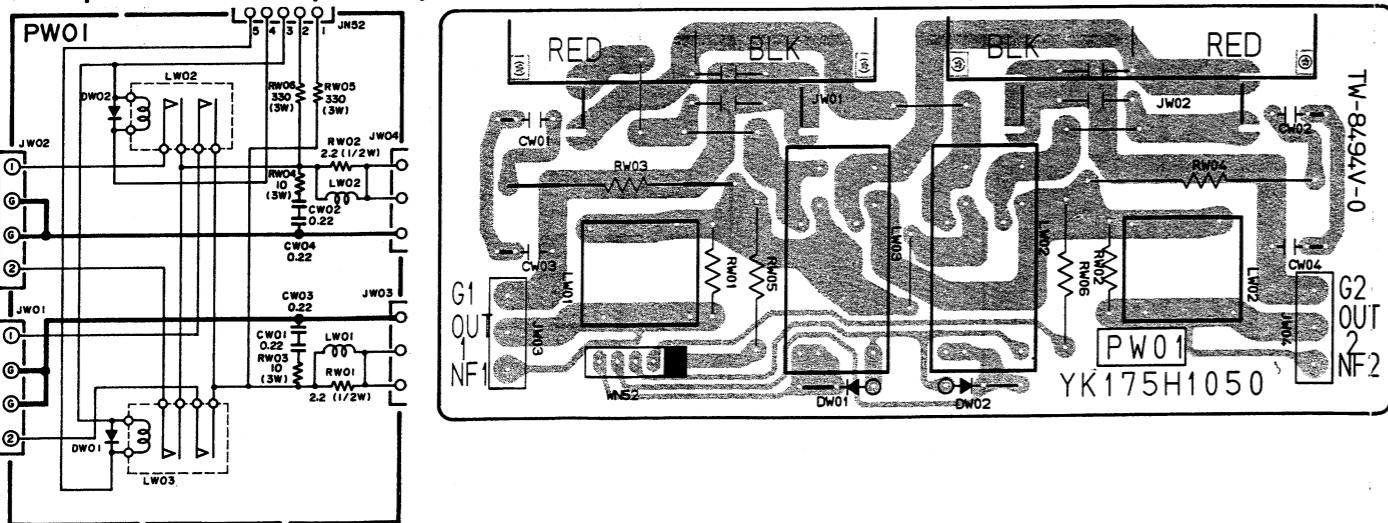
6.18 Input Selector Display Assembly (PY01)
Schematic Diagram and Component Locations (Model PM-64II)



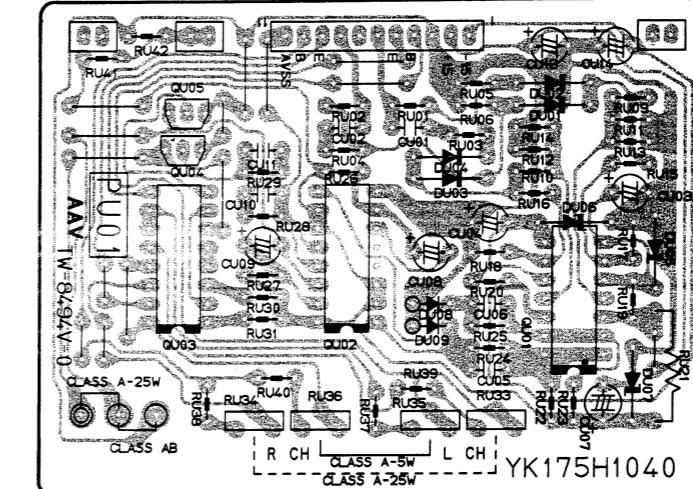
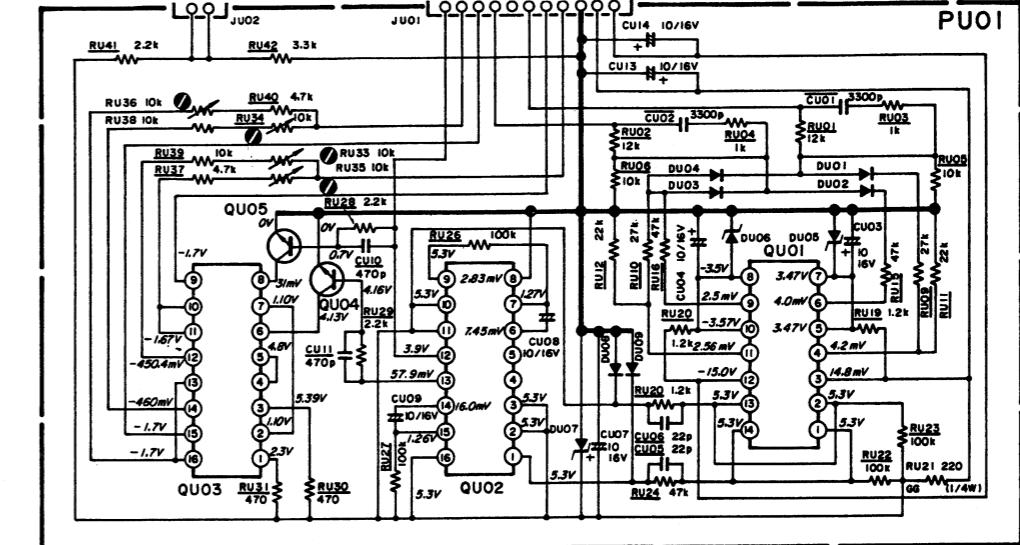
6.19 Volume/Push Switch Assembly (PS01) Schematic Diagram and Component Locations (Model PM-64II)



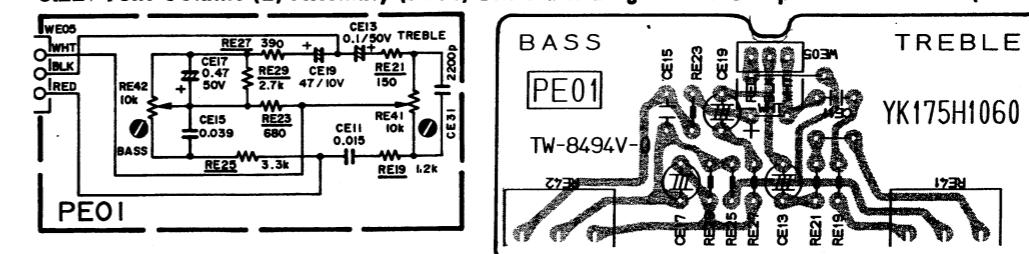
6.20 Speaker Protector Relay Assembly (PW01) Schematic Diagram and Component Locations (Model PM-64-II)



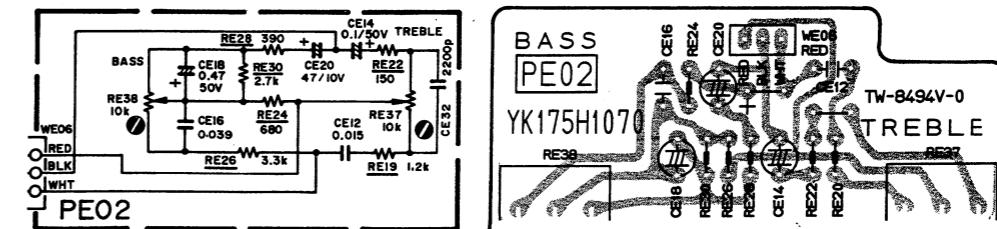
6.21 AVSS Assembly (PU01) Schematic Diagram and Component Locations (Model PM-64II)



6.22 Tone Volume (L) Assembly (PE01) Schematic Diagram and Component Locations (Model PM-64II)

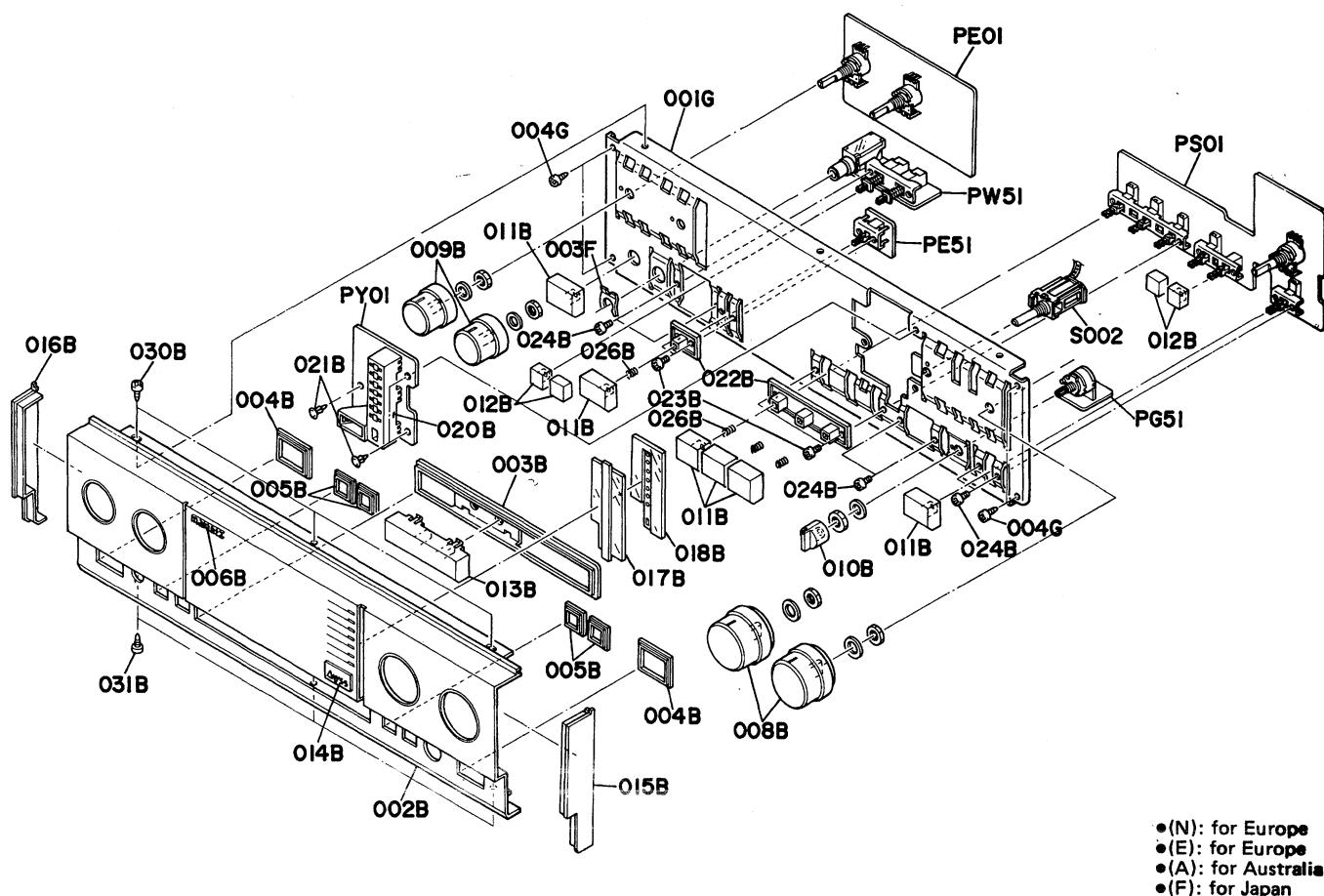


6.23 Tone Volume (R) Assembly (PE02) Schematic Diagram and Component Locations (Model PM-64II)



7. EXPLODED VIEW AND PARTS LIST (Model PM-54II)

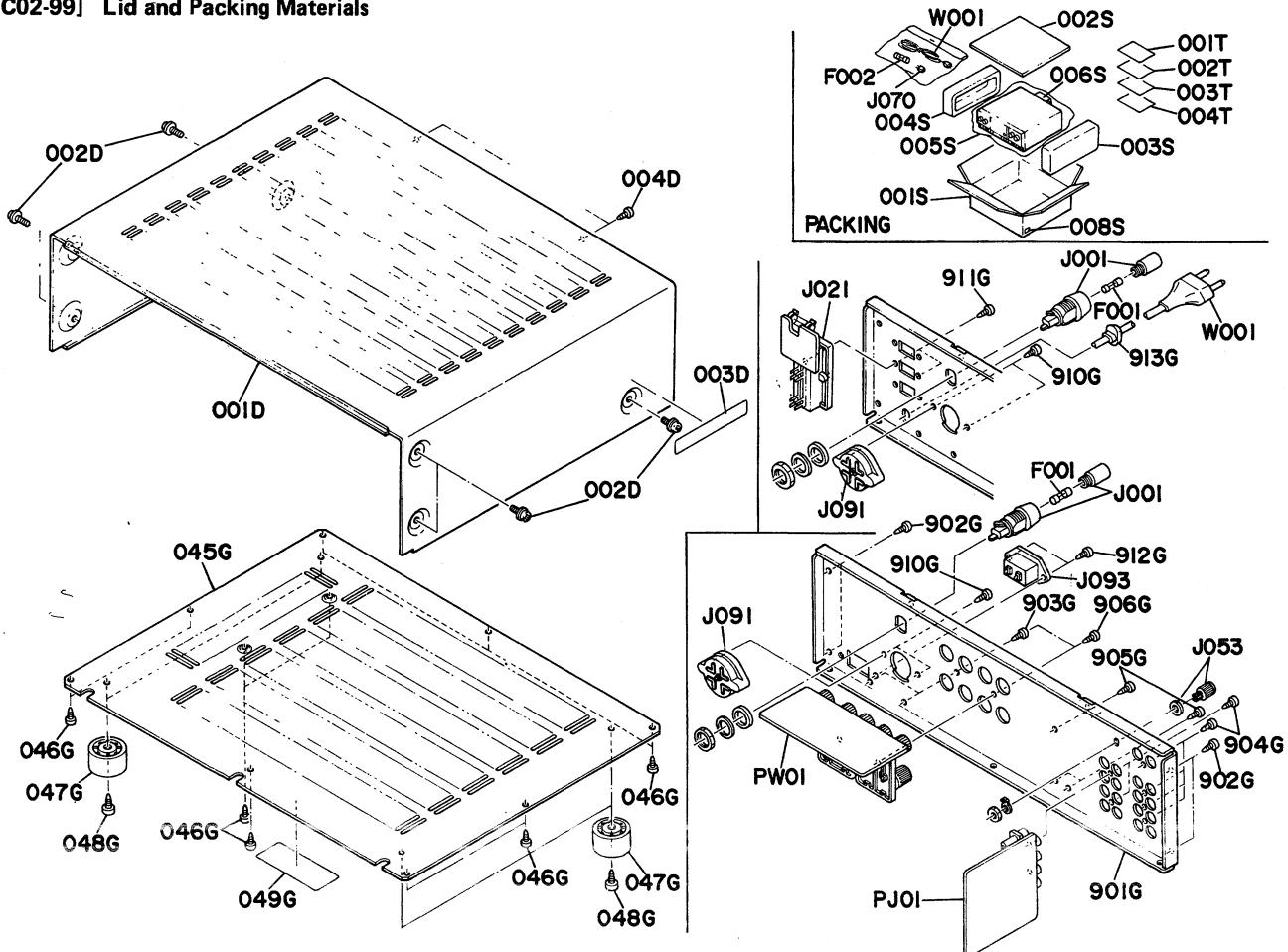
[C01-99] Front Panel and Chassis



REF. DESIG.	PART NO.	DESCRIPTION
A	182H248410	Front Panel Assembly (Gold)
002B	182H248110	Front Panel
003B	176H259020	Bushing Tone Defeat/Tape Cope
004B	242H259020	Bushing Power, CD, Phone Direct
005B	242H259030	Bushing Speaker, Direct
006B	274H251020	Badge Marantz
013B	263H113010	Stud
014B	175H251010	Badge AVSS
015B	176H067110	Cap Front Side (R)
016B	176H067120	Cap Front Side (L)
017B	263H158010	Window
018B	176H151010	Introducer
A	182H248400	Front Panel Assembly (Black)
002B	182H248010	Front Panel
003B	176H259010	Bushing, Tone Defeat/Tape Cope
004B	242H259120	Bushing, Power, CD/Phone Direct
005B	242H259130	Bushing, Speaker/Loudness
006B	274H251020	Badge, Marantz
013B	263H113110	Stud
014B	175H251010	Badge, AVSS
015B	176H067010	Cap, Right Side
016B	176H067020	Cap, Left Side
017B	263H158010	Window
018B	176H151010	Introducer

REF. DESIG.	PART NO.	DESCRIPTION
008B	176H154010	Knob, Selector/Volume, Black
	176H154110	Knob, Selector/Volume, Gold
009B	176H154020	Knob, Tone Control, Black
	176H154120	Knob, Tone Control, Gold
010B	263H154130	Knob, Balance, Black
	263H154030	Knob, Balance, Gold
011B	242H270110	Button, Black
	242H270010	Button, Gold
012B	242H270120	Button, Black
	242H270020	Button, Gold
020B	176H271010	Holder, LED
021B	2276005050	Clamper
022B	176H051010	Guide, Button
023B	51100306M0	B.H.M. Screw B3 x 6
024B	51100306M0	B.H.M. Screw B3 x 6
026B	176H115010	Spring, Button
030B	51280308M0	B.H. Tapped Screw B3 x 8
031B	51280308M0	B.H. Tapped Screw B3 x 8
003F	198T114010	Stopper, Headphone Jack
001G	176H105010	Chassis, Front
004G	51280308M0	B.H. Tapped Screw B3 x 8
S002	SR00050210	Rotary Switch, Input Selector

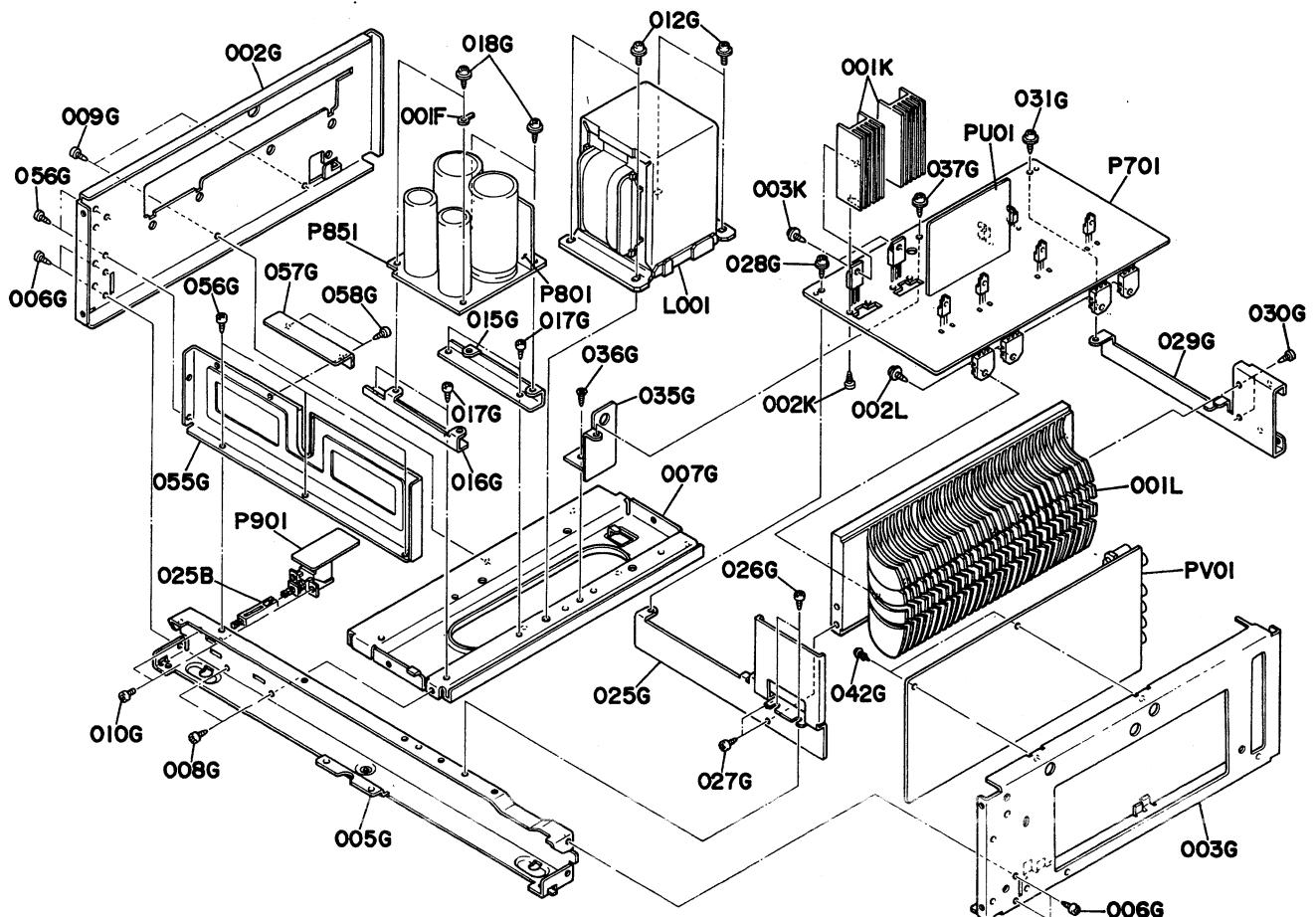
[C02-99] Lid and Packing Materials



REF. DESIG.	PART NO.	DESCRIPTION		
001D	176H257010	Lid, Top Cover, Black		
	176H257030	Lid, Top Cover, Gold		
002D	51260408M0	B.T. Screw	B4 x 8	
003D	2911861140	Label, Caution		
004D	51280308M0	B.H. Tapped Screw	B3 x 8	
045G	268H257020	Lid, Bottom Cover		
046G	51280308M0	B.H. Tapped Screw	B3 x 8	
047G	2759057010	Leg		
048G	51280410M0	B.H. Tapped Screw	B4 x 10	
049G	2911861110	Label, Caution		
901G	182H250010	Rear Panel [N, A]		
	182H250020	Rear Panel [E, G]		
902G	51280308M0	B.H. Tapped Screw	B3 x 8	
903G	51280308M0	B.H. Tapped Screw	B3 x 8	
904G	51280308M0	B.H. Tapped Screw	B3 x 8	
905G	51280308M0	B.H. Tapped Screw	B3 x 8	
906G	51280308M0	B.H. Tapped Screw	B3 x 8	
910G	51280308M0	B.H. Tapped Screw	B3 x 8	
911G	51280308M0	B.H. Tapped Screw	B3 x 8 [E, G]	
912G	51280308M0	B.H. Tapped Screw	B3 x 8 [N, A]	
913G	1455259090	Bushing, AC Power Cord	[E, G]	
△F001	FS10160850	Fuse	T1.6A	250V [N, A]
	FS10200850	Fuse	T2.0A	250V [E, G]

REF. DESIG.	PART NO.	DESCRIPTION		
△J001	YJ08000290	Jack, Fuse Holder		
△J021	YJ04000730	Jack, AC Outlet; 3P [E, G]		
J053	YT01010150	Terminal, GND		
△J091	BY05030040	Voltage Selector [N, A]		
	BY05080040	Voltage Selector [E, G]		
△J093	YP04000610	Plug, AC Inlet [N, A]		
△W001	YC01800370	A.C. Power Cord [E, G]		
PACKING				
001S	182H801010	Packing Case [N, A]		
	182H801020	Packing Case [E, G]		
002S	176H807010	Reinforcing [E, G]		
003S	263H809010	Cushion, Right		
004S	263H809020	Cushion, Left		
005S	9091111030	Polyethylene Sheet		
006S	2864804010	Sleeve, AC Power Cord [E, G]		
008S	9526019050	Serial No. Card [G]		
001T	176H851310	User Manual		
002T	182H851320	User Manual, Spec		
003T	182H856010	Circuit Diagram [N, E]		
004T	416H854010	Warranty Card [G]		
	9631000090	Warranty Card [A]		
△F002	FS10400850	Fuse	T4.0A	250V [E, G]
△J070	YJ04001240	Jack, AC Adapter [E, G]		
△W001	ZC01805030	A.C. Power Cord [N]		
	ZC02006030	A.C. Power Cord [A]		

[C03-99] Chassis and General Parts

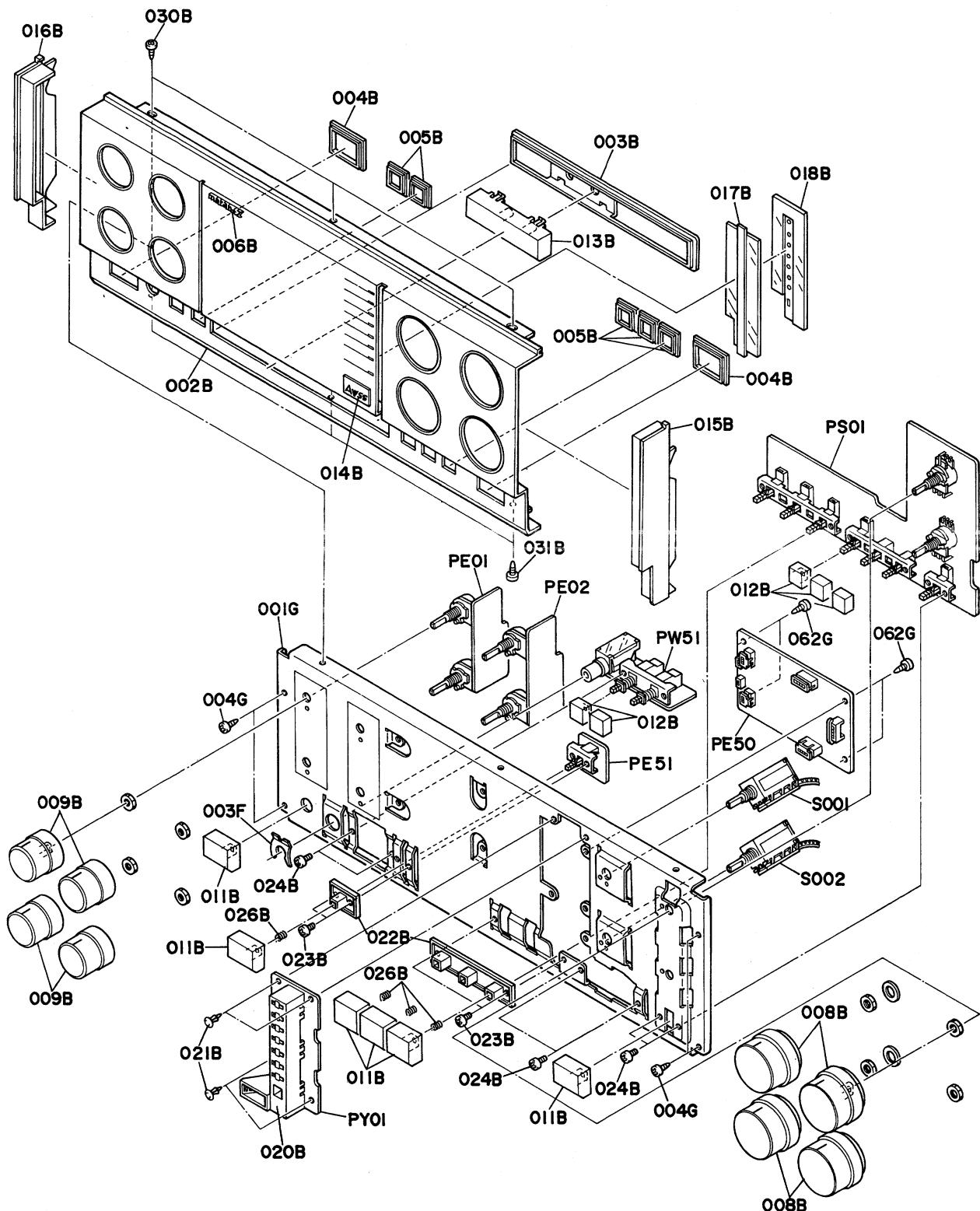


REF. DESIG.	PART NO.	DESCRIPTION
025B	176H125010	Joint, Power Switch
001F	62030049W0	Lug, Earth
002G	176H105020	Chassis, Left Side
003G	176H105030	Chassis, Right Side
005G	176H126010	Stay, Center
006G	51280308M0	B.H. Tapped Screw B3 x 8
007G	176H160010	Bracket, Power Transformer
008G	51280308M0	B.H. Tapped Screw B3 x 8
009G	51280308M0	B.H. Tapped Screw B3 x 8
010G	51100306M0	B.H.M. Screw B3 x 6
012G	51706009Z0	Special Set Screw
015G	176H104040	Retainer, Rear
016G	176H104050	Retainer, Front
017G	51280308M0	B.H. Tapped Screw B3 x 8
018G	51280308M0	B.H. Tapped Screw B3 x 8
025G	176H104080	Retainer, Heatsink; Front
026G	51280308M0	B.H. Tapped Screw B3 x 8
027G	51280308M0	B.H. Tapped Screw B3 x 8
028G	51260308M0	B.T. Screw B3 x 8
029G	176H104090	Retainer, Heatsink; Rear
030G	51280308M0	B.H. Tapped Screw B3 x 8
031G	51280308M0	B.H. Tapped Screw B3 x 8

REF. DESIG.	PART NO.	DESCRIPTION
035G	176H104070	Retainer, Main P.W. Board
036G	51280308M0	B.H. Tapped Screw B3 x 8
037G	51260308M0	B.T. Screw B3 x 8
042G	2276005050	Clamper
055G	176H109010	Shield
056G	51280308M0	B.H. Tapped Screw B3 x 8
057G	182H109010	Shield
058G	51280308M0	B.H. Tapped Screw B3 x 8
001L	176H267130	Heatsink, Main
002L	51260312M0	B.T. Screw B3 x 12
001K	182H267010	Heatsink (Q757, Q758)
002K	51282608B0	B.H. Tapped Screw B2.6 x 8
003K	51100308M0	B.H.M. Screw B3 x 8
△L001	TS18507050	Power Transformer [N, A]
	TS18507060	Power Transformer [E, G]

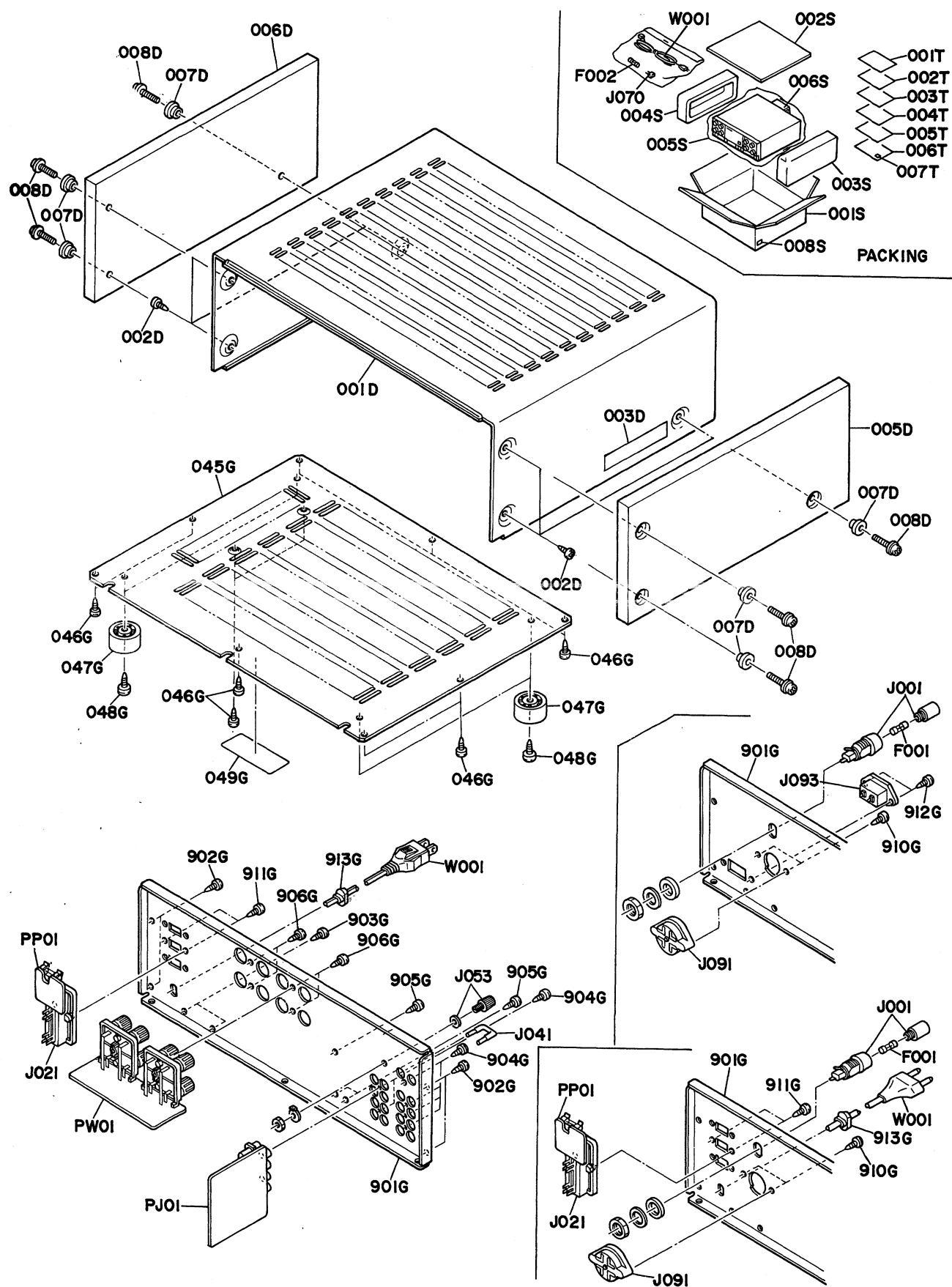
(Model PM-64II)

[C04-99] Front Panel and Chassis



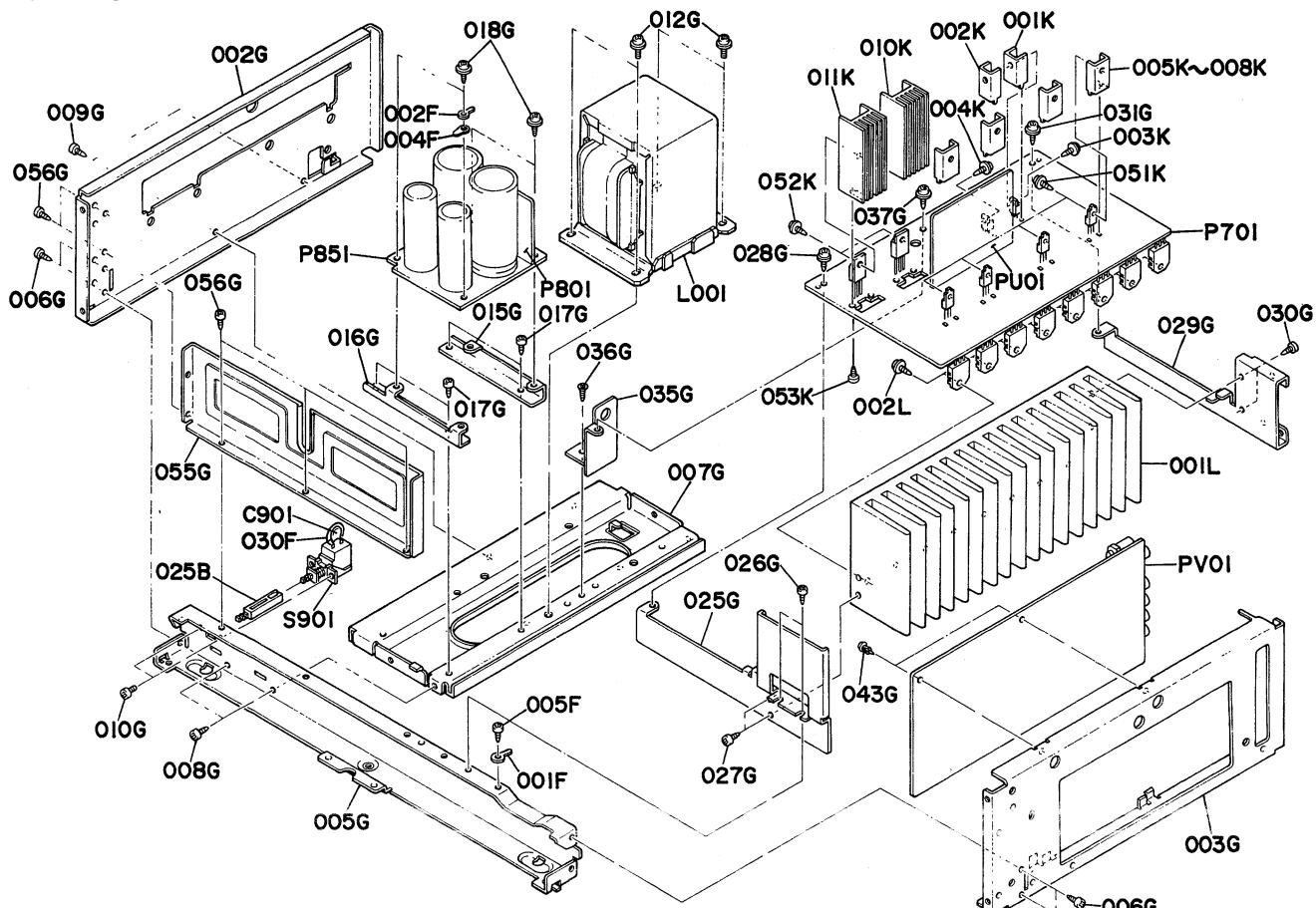
REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
A A1	175H248400 175H248410	PM-64MKII Front Panel Assembly (Black) Front Panel Assembly (Gold)	008B	175H154010 175H154020	Knob (Black) Knob (Gold)
002B	175H248020 175H248030	Front Panel (Black) Front Panel (Gold)	009B	175H154030 175H154040	Knob (Black) Knob (Gold)
003B	176H259010 176H259020	Bushing, Tone Defeat/Tape Cope (Black) Bushing, Tone Defeat/Tape Cope (Gold)	011B	242H270110 242H270010	Button (Black) Button (Gold)
004B	242H259120	Bushing, Power/CD, Phono Direct (Black)	012B	242H270120 242H270020	Button (Black) Button (Gold)
	242H259020	Bushing, Power/CD, Phono Direct (Gold)	020B	175H271010	Holder, LED
005B	242H259130	Bushing, Speaker/Loudness/etc. (Black)	021B	51260308M0	B.T. Screw
	242H259030	Bushing, Speaker/Loudness/etc. (Gold)	022B	176H051010	Guide, Button
006B	274H251020	Badge, Marantz	023B	51100306M0	B.H.M. Screw
013B	263H113110 263H113010	Stud (Black) Stud (Gold)	024B	51100306M0	B.H.M. Screw
014B	175H251010	Badge, AVSS	026B	176H115010	Spring, Button
015B	242H067110	Cap, Right Side (Black)	030B	51280308M0	B.H. Tapped Screw
	242H067010	Cap, Right Side (Gold)	031B	51280308M0	B.H. Tapped Screw
016B	242H067120	Cap, Left Side (Black)	003F	198T114010	Stopper, Headphone Jack
	242H067020	Cap, Left Side (Gold)	001G	175H105010	Chassis, Front
017B	242H158010	Window	004G	51280308M0	B.H. Tapped Screw
018B	175H151010	Introducer	062G	51280308M0	B.H. Tapped Screw
		PM-74D	S001	SR00050230	Rotary Switch, Function Selector
A	175H248420	Front Panel Assembly	S002	SR00060090	Rotary Switch, Rec Selector
002B	175H248010	Front Panel			
003B	176H259010	Bushing, Tone Defeat/Tape Cope			
004B	242H259120	Bushing, Power/CD, Phono Direct			
005B	242H259130	Bushing, Speaker/Loudness/etc.			
006B	274H251020	Badge, Marantz			
013B	263H113110	Stud			
014B	175H251010	Badge, AVSS			
015B	242H067110	Cap, Right Side			
016B	242H067120	Cap, Left Side			
017B	242H158010	Window			
018B	175H151010	Introducer			

[C05-99] Lid and Packing Materials



REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
001D	175H257010 175H257020 175H257030	Lid, Top Cover (Black) Lid, Top Cover (Gold) Lid, Top Cover [F]	001S	175H801010 175H801020 175H801030	PACKING Packing Case [F] Packing Case [N, A] Packing Case [E, G]
002D	51260408M0	B.T. Screw B4 x 8 [N, A, E, G]	002S	175H807010	Reinforcing [E, G]
003D	2911861140	Label, Caution [N, A, E, G]	003S	175H809010	Cushion, Right
005D	175H249110	Side Panel (R) [F]	004S	175H809020	Cushion, Left
006D	175H249120	Side Panel (L) [F]	005S	9091111030	Polyethylene Sheet
007D	3906259010	Bushing [F]	006S	2864804010	Sleeve, AC Power Cord [E, G, F]
008D	51280430U0	B.H. Tapped Screw [F]	008S	9526019050	Serial No. Card [G]
045G	268H257020	Lid, Bottom Cover	001T	175H851310	User Manual [N, F, A, G]
046G	51280308M0	B.H. Tapped Screw B3 x 8		175H851110	User Manual [F]
047G	2759057010	Leg [N, A, E, G]	002T	175H851320	User Manual, Spec [N, E, A, G]
	176H057020	Leg [F]	003T	175H856010	Circuit Diagram [N, E]
048G	51280410M0	B.H. Tapped Screw B4 x 10	004T	416H854010 9631000090	Warranty Card [G] Warranty Card [A]
049G	2911861110	Label, Caution [N, A, E, G]	005T	9631000130	Warranty Card [F]
901G	175H250020 175H250030 175H250010	Rear Panel [N, A] Rear Panel [E, G] Rear Panel [F]	006T	128T854010	Warranty Card [F]
902G	51280308M0	B.H. Tapped Screw B3 x 8	007T	9611000050	Warranty Card [F]
903G	51280308M0	B.H. Tapped Screw B3 x 8	△ F002	9540000010	License [F]
904G	51280308M0	B.H. Tapped Screw B3 x 8	△ J070	YJ04001240	Fuse T6.3A 250V [E, G]
905G	51280308M0	B.H. Tapped Screw B3 x 8	△ W001	ZC01805030 ZC02006030	Jack, AC Adapter [E, G]
906G	51280308M0	B.H. Tapped Screw B3 x 8			A.C. Power Cord [N] A.C. Power Cord [A]
910G	51280308M0	B.H. Tapped Screw B3 x 8 [N, E, A, G]			
911G	51280308M0	B.H. Tapped Screw B3 x 8 [E, G, F]			
912G	51280308M0	B.H. Tapped Screw B3 x 8 [N, A]			
913G	1455259090	Bushing, AC Power Cord [E, G, F]			
△ F001	FS10315850 FS10250850	Fuse T3.15A 250V [E] Fuse T2.5A 250V [N, A, G]			
△ J001	YJ08000290	Jack, Fuse Holder [N, E, A, G]			
△ J021	YJ04000730	Jack, AC Outlet; 3P [E, G, F]			
J053	YT01010150	Terminal, GND			
△ J091	BY05030040 BY05080040	Voltage Selector [N, A] Voltage Selector [E, G]			
△ J093	YP04000610	Plug, AC Inlet [N, A]			
△ W001	YC01800370	A.C. Power Cord [E, G, F]			
J041	YQ01000020	Shote Plug [F]			

[C06-99] Chassis and General Parts



REF. DESIG.	PART NO.	DESCRIPTION
025B	176H125010	Joint, Power Switch
001F	62030049W0	Lug, Earth
002F	62030049W0	Lug, Earth
004F	62030049W0	Lug
005F	51280306M0	B.H. Tapped Screw B3 x 6
030F	139T120200	Insulator
002G	176H105020	Chassis, Left Side
003G	176H105030	Chassis, Right Side
005G	176H126010	Stay, Center
006G	51280308M0	B.H. Tapped Screw B3 x 8
007G	176H160010	Bracket, Power Transformer
008G	51280308M0	B.H. Tapped Screw B3 x 8
009G	51280308M0	B.H. Tapped Screw B3 x 8
010G	51100306M0	B.H.M. Screw B3 x 6
012G	51706009Z0	Special Set Screw
015G	176H104040	Retainer, Rear
016G	176H104050	Retainer, Front
017G	51280308M0	B.H. Tapped Screw B3 x 8
018G	51260308M0	B.T. Screw B3 x 8
025G	176H104080	Retainer, Heatsink; Front
026G	51280308M0	B.H. Tapped Screw B3 x 8
027G	51280308M0	B.H. Tapped Screw B3 x 8
028G	51260308M0	B.T. Screw B3 x 8
029G	176H104090	Retainer, Heatsink; Rear
030G	51280308M0	B.H. Tapped Screw B3 x 8
031G	51280308M0	B.H. Tapped Screw B3 x 8

REF. DESIG.	PART NO.	DESCRIPTION
035G	176H104070	Retainer, Main P.W. Board
036G	51500308M0	F.H. Taprite Screw F3 x 8
037G	51260308M0	B.T. Screw B3 x 8
043G	2276005050	Clamper
055G	176H109010	Shield
056G	51280308M0	B.H. Tapped Screw B3 x 8
001L	174H267010	Heatsink, Main
002L	51260312M0	B.T. Screw B3 x 12
001K	264H267030	Heatsink (QN81)
002K	264H267030	Heatsink (QN82)
003K	51100308M0	B.H.M. Screw B3 x 8
004K	51100308M0	B.H.M. Screw B3 x 8
005K	176H267040	Heatsink (Q707)
006K	176H267040	Heatsink (Q708)
007K	176H267040	Heatsink (Q709)
008K	176H267040	Heatsink (Q710)
010K	182H267010	Heatsink (Q757)
011K	182H267010	Heatsink (Q758)
051K	51280308M0	B.H. Tapped Screw B3 x 6
052K	51280308M0	B.H. Tapped Screw B3 x 8
053K	51280308M0	B.H. Tapped Screw B3 x 8
△ L001	TS19628010 TS19628020 TS19628030	Power Transformer [N, A] Power Transformer [E, G] Power Transformer [F]
△ C901	DK18103840 DK18103850 SP01010820	Ceramic Cap. 0.01μF 250V Ceramic Cap. 0.01μF 250V Push Switch, Power
△ S901		

- (N): for Europe
- (E): for Europe
- (A): for Australia
- (F): for Japan
- (G): for PX

8. ELECTRICAL PARTS LIST (Model PM-54II)

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR

R*:** (1) GD05 --- 140, Carbon film fixed resistor, $\pm 5\%$, 1/4W
R*:** (2) GD05 --- 160, Carbon film fixed resistor, $\pm 5\%$, 1/6W

① — Resistance value

Examples

①	Resistance value
0.1Ω...001	10Ω...100
0.5Ω...005	18Ω...180
1Ω...010	100Ω...101
6.8Ω...068	390Ω...391
	2.7kΩ...272
	10kΩ...103
	22kΩ...223
	4.7MΩ...475
	1MΩ...105
	3.9MΩ...391

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

C***: CERAMIC CAP.

(1) DD1 --- 370, Ceramic condenser

① ② Disc type

① ② Temp. coeff. P350 ~ N1000, 50V



Examples

① Tolerance (Capacity deviation)

$\pm 0.25pF...0$

$\pm 0.5pF...1$

$\pm 5\%...5$

* Tolerance of COMMON PARTS handled here are as follows:

0.5pF ~ 5pF ... $\pm 0.25pF$

6pF ~ 10pF ... $\pm 0.5pF$

12pF ~ 560pF ... $\pm 5\%$

② Capacity value

0.5pF...005 3pF...030 100pF...101

1pF...010 10pF...100 220pF...221

1.5pF...015 47pF...470 560pF...561

C***: CERAMIC CAP.

(1) DK16 --- 300, High dielectric constant ceramic condenser

① Disc type

① Temp. chara. 2B4, 50V



Example

② Capacity value

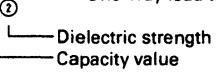
100pF...101 1000pF...102 10000pF...103

470pF...471 2200pF...222

C***: ELECTROLY CAP. ($\frac{1}{2}$), FILM CAP. ($\frac{1}{4}$)

(1) EA ----- 10, Electrolytic condenser

① ② One-way lead type, Tolerance $\pm 20\%$



Examples

① Capacity value

0.1μF...104 4.7μF...475 100μF...107

0.33μF...334 10μF...106 330μF...337

1μF...105 22μF...226 1100μF...108

2200μF...228

② Working voltage

6.3V...006 25V...025

10V...010 35V...035

16V...016 50V...050

(2) DF15 --- 350, Plastic film condenser

① One-way type, Mylar $\pm 5\%$ 50V



Examples

① Capacity value

0.001μF (1000pF)...102 0.1μF...104

0.0018μF.....182 0.56μF...564

0.01μF.....103 1μF...105

0.015μF.....153

REF. DESIG.	PART NO.	DESCRIPTION		
P701	YK176H3410 ZZ182H8410 ZZ182H7410	P701-MAIN AMP CIRCUIT BOARD P.W. Board, Main Amp P.W. Board Assembly [N, A] P.W. Board Assembly [E, G]		
CN01	OA47505010	P701-CAPACITORS Elect 4.7μF 50V		
CN02	OA47405010	Elect 0.47μF 50V		
CN04	OA47601010	Elect 47μF 10V		
CN05	OA47601010	Elect 47μF 10V		
CN81	OA47703510	Elect 470μF 35V		
CN82	OA47703510	Elect 470μF 35V		
CN83	OA33703510	Elect 330μF 35V		
CN84	OA33703510	Elect 330μF 35V		
CN85	OA22701610	Elect 220μF 16V		
CN86	OA22701610	Elect 220μF 16V		
CN89	DK18103560	Ceramic 0.01μF +80% -20%		
CN90	DK18103560	Ceramic 0.01μF +80% -20%		
CN91	EA47603510	Elect 47μF 35V		
CN92	EA47603510	Elect 47μF 35V		
C701	OF15272010	Film 270pF ±5%		
C702	OF15272010	Film 270pF ±5%		
C703	OA10605010	Elect 10μF 50V		
C704	OA10605010	Elect 10μF 50V		
C705	OA22700610	Elect 220μF 6.3V		
C706	OA22700610	Elect 220μF 6.3V		
C707	OF15152010	Film 1500pF ±5%		
C708	OF15152010	Film 1500pF ±5%		
C709	DF55221090	Film 220pF ±5%		
C710	DF55221090	Film 220pF ±5%		
C711	DF31100520	Film 10pF ±5%		
C712	DF31100520	Film 10pF ±5%		
C713	OA47706310	Elect 470μF 63V		
C714	OA47706310	Elect 470μF 63V		
C715	OA10701610	Elect 100μF 16V		
C716	OA10701610	Elect 100μF 16V		
C719	DD11100300	Ceramic 10pF ±0.5pF		
C720	DD11100300	Ceramic 10pF ±0.5pF		
C725	DK18103310	Ceramic 0.01μF +80% -20%		
C726	DK18103310	Ceramic 0.01μF +80% -20%		
C727	DK18103310	Ceramic 0.01μF +80% -20%		
C728	DK18103310	Ceramic 0.01μF +80% -20%		
C751	DF55151090	Film 150pF ±5%		
C752	DF55151090	Film 150pF ±5%		
C753	OA10510010	Elect 1μF 100V		
C754	OA10510010	Elect 1μF 100V		
C755	OF15103010	Film 0.01μF ±5%		
P701-RESISTORS (All Resistors are ±5% and 1/4W)				
RN01	GG05222140	2.2KΩ		
RN02	GG05222140	2.2KΩ		
RN03	GG05222140	2.2KΩ		
RN04	GG05222140	2.2KΩ		
RN27	NH05220140	22Ω, Fusible [N, A]		
	GG05220140	22Ω [E, G]		
RN81	NH05012140	1.2Ω, Fusible		
RN82	NH05012140	1.2Ω, Fusible		
RN83	NF02100140	10Ω ±2%, Fuse		
RN84	NF02100140	10Ω ±2%, Fuse		
RN85	GG05100120	10Ω 1/4W		

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
RN86	GG05100120	10Ω ½W	Q711	HT332802A0	Transistor 2SC3280(O, R)
RN90	GA05222010	2.2KΩ 1W	Q712	HT332802A0	Transistor 2SC3280(O, R)
RN91	GA05222010	2.2KΩ 1W	Q713	HT113012A0	Transistor 2SA1301(O, R)
R713	GG05123120	12KΩ ½W	Q714	HT113012A0	Transistor 2SA1301(O, R)
R714	GG05123120	12KΩ ½W	Q719	HC10204030	IC STK-3062MARK3
R719	RA04720750	4.7KΩ, Trimming	Q751	HT322401A0	Transistor 2SC2240(GR)
R720	RA04720750	4.7KΩ, Trimming	Q752	HT109701A0	Transistor 2SA970(GR)
R721	GG05101140	100Ω	Q753	HT109701A0	Transistor 2SA970(GR)
R722	GG05101140	100Ω	Q754	HT322401A0	Transistor 2SC2240(GR)
R723	GG05101140	100Ω	Q755	HT329832A0	Transistor 2SC2983(O, Y)
R724	GG05101140	100Ω	Q756	HT112252A0	Transistor 2SA1225(O, Y)
R727	GA05181020	180Ω 2W	Q757	HT209222A0	Transistor 2SB922(R, Q)
R728	GA05181020	180Ω 2W	Q758	HT412382A0	Transistor 2SD1238(Q, R)
R729	NH05022140	2.2Ω, Fusible [N, A]			P701-MISCELLANEOUS
	GG05022140	2.2Ω [E, G]	JN81	YJ06002440	Jack, 4P
R730	GG05022140	2.2Ω [E, G]	JN82	YJ06002430	Jack, 3P
	GG05022140	2.2Ω [E, G]	JN83	YJ06002430	Jack, 3P
R731	GG05100140	10Ω	J701	YP06003440	Plug, 4P
R732	GG05100140	10Ω			P801-DIODE BRIDGE CIRCUIT BOARD
R737	BW10000080	0.18Ωx2 ±10% 5W	WN81	YU03520260	Jumper Lead, 3P
R738	BW10000080	0.18Ωx2 ±10% 5W			
R747	NF02220140	22Ω, Fuse [N, A]			
	GG05220140	22Ω [E, G]			
R748	NF02220140	22Ω, Fuse [N, A]	P801	YK176H1430	P.W. Board, Diode Bridge
	GG05220140	22Ω [E, G]		ZZ182H1430	P.W. Board Assembly
R755	GG05047140	4.7Ω	C805	DK18103560	Ceramic Cap. 0.01μF +80% -20%
R756	GG05047140	4.7Ω			
		P701-SEMICONDUCTORS	C806	DK18103560	Ceramic Cap. 0.01μF +80% -20%
DN01	HD20014010	Diode 1SS81			
DN02	HD20014010	Diode 1SS81	△ D801		
DN03	HD20014010	Diode 1SS81	△ D808	HD20030100	Diode 30D-2
DN04	HD20014010	Diode 1SS81			
DN05	HD20022030	Diode DSF10C			
DN81	HD20022030	Diode DSF10C	J801	YP06000580	Plug, 5P
DN88			J802	YP07001600	Plug, 10P
D701	HD20014010	Diode 1SS81			P851-POWER SUPPLY CIRCUIT BOARD
D702	HD20014010	Diode 1SS81			P.W. Board, Power Supply
D703	HD20014010	Diode 1SS81			P.W. Board Assembly
D704	HD20014010	Diode 1SS81	P851	YK176H1440	
D709	HD20002000	Diode 1SS133, etc.		ZZ182H1440	
D710	HD20002000	Diode 1SS133, etc.			
D751	HD20029100	Diode 30DL2	△ C851	EB10905620	Elect Cap. 10000μF 56V
D752	HD20029100	Diode 30DL2	△ C852	EB10905620	Elect Cap. 10000μF 56V
			△ C853	EB68804080	Elect Cap. 6800μF 40V
			△ C854	EB68804080	Elect Cap. 6800μF 40V
QN01	HT322401A0	Transistor 2SC2240(GR)			P901-POWER SWITCH CIRCUIT BOARD
QN02	HT322401A0	Transistor 2SC2240(GR)			P.W. Board, Power Switch
QN03	HT109701A0	Transistor 2SA970(GR)			P.W. Board Assembly
QN04	HT109701A0	Transistor 2SA970(GR)	P901	YK176H2860	
QN05	HT322401A0	Transistor 2SC2240(GR)		ZZ176H8860	
QN06	HT109701A0	Transistor 2SA970(GR)			
QN07	HC10042050	IC TA7317P	△ C901	DK18103840	Ceramic Cap. 0.01μF 250V
QN81	HC38515090	IC NJM78M15A			
QN82	HC39515090	IC NJM79M15A	△ S901	SP01011100	Push Switch, Power
Q701	HT318151C0	Transistor 2SC1815(GRN)			
Q702	HT318151C0	Transistor 2SC1815(GRN)			
Q707	HT332982D0	Transistor 2SC3298(O, Y)			
Q708	HT332982D0	Transistor 2SC3298(O, Y)			
Q709	HT113062D0	Transistor 2SA1306(O, Y)			
Q710	HT113062D0	Transistor 2SA1306(O, Y)			

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
PE01	YK176H2820 ZZ176H8820	PE01-TONE VOLUME CIRCUIT BOARD P.W. Board, Tone Volume P.W. Board Assembly	PG51	YK176H2840 ZZ176H8840	PG51-BALANCE VOLUME CIRCUIT BOARD P.W. Board, Balance Volume P.W. Board Assembly
CE03	DF55271090	PE01-CAPACITORS	RG51	RM01040890	Variable Resistor 100KΩ(MN)
CE04	DF55271090	Film 270pF ±5%			
CE05	DF35560520	Film 270pF ±5%			
CE06	DF35560520	Mica 56pF ±5%			
CE07	OA22700610	Mica 56pF ±5%			
CE08	OA22700610	Elect 220μF 6.3V	PJ01	YK176H1420 ZZ176H1420	PJ01-TAPE MONITOR CIRCUIT BOARD P.W. Board, Tape Monitor P.W. Board Assembly
CE09	DF35390520	Elect 220μF 6.3V			
CE10	DF35390520	Mica 39pF ±5%			
CE11	OF15153010	Mica 39pF ±5%	CJ01	{ DK18103310	Ceramic Cap. 0.01μF +80% -20%
CE12	OF15153010	Film 0.015μF ±5%	CJ06	DK18103310	Ceramic Cap. 0.01μF +80% -20%
CE13	OA10405010	Film 0.015μF ±5%	CJ08	DK18103310	Ceramic Cap. 0.01μF +80% -20%
CE14	OA10405010	Elect 0.1μF 50V	JJ01	YT02040690	
CE15	OF15393010	Elect 0.1μF 50V	JJ02	YT02040690	Terminal, 4P; RCA
CE16	OF15393010	Film 0.039μF ±5%	JJ03	YJ06002460	Terminal, 4P; RCA
CE17	OA47405010	Film 0.039μF ±5%	JJ04	YJ06002460	Jack, 7P
CE18	OA47405010	Elect 0.47μF 50V			
CE19	OA47601010	Elect 0.47μF 50V			
CE20	OA47601010	Elect 47μF 10V			
CE21	OA22601610	Elect 47μF 10V	PS01	YK176H2810 ZZ176H8810	PS01-VOLUME/PUSH SWITCH CIRCUIT BOARD P.W. Board, Volume/Push Switch P.W. Board Assembly
CE22	OA22601610	Elect 22μF 16V			
CE23	OF15332010	Elect 22μF 16V			
CE24	OF15332010	Film 3300pF ±5%	CS01	OF15102010	Ceramic Cap. 1000pF 50V
CE25	OA10701610	Film 3300pF ±5%	CS02	OF15102010	Ceramic Cap. 1000pF 50V
CE26	OA10701610	Elect 100μF 16V			
CE27	OA10701610	Elect 100μF 16V	RS07	GA05122010	Resistor 1.2KΩ ±5% 1W
CE28	OA10701610	Elect 100μF 16V	RS10	RM05031250	Variable Resistor 50KΩ(B)
CE31	DF15222350	Film 2200pF ±5%	SS01	SP04030360	Push Switch
CE32	DF15222350	Film 2200pF ±5%	SS02	SP04020500	Push Switch
		PE01-RESISTORS	SS03	SP04010520	Push Switch
RE37	RM01030310	10KΩ(C), Variable	WS01	YU06140260	Jumper Lead, 6P
RE38	RM01030310	10KΩ(C), Variable	WS02	YU07380260	Jumper Lead, 7P
RE39	NF02470140	47Ω ±5% ¼W, Fuse	WS03	YU07360260	Jumper Lead, 7P
RE40	NF02470140	47Ω ±5% ¼W, Fuse	WS04	YU04180260	Jumper Lead, 4P
		PE01-SEMICONDUCTORS	WS05	YU04080260	Jumper Lead, 4P
QE01	HF20369180	F.E.T. 2SK369(BL)	WS06	YU06120260	Jumper Lead, 6P
QE02	HF20369180	F.E.T. 2SK369	WS07	YU04120260	Jumper Lead, 4P
QE03	HF20369180	F.E.T. 2SK369	WS09	YB00370060	Connective Cord, 3P
QE04	HF20369180	F.E.T. 2SK369	WS10	YB00370070	Connective Cord, 3P
QE05	HC10026090	IC NJM2041DD	WS11	YB00280360	Connective Cord, 4P
		PE01-MISCELLANEOUS			
JE01	YP06003440	Plug, 4P	PU01	YK176H3440 ZZ182H8440	PU01-AVSS CIRCUIT BOARD P.W. Board, AVSS P.W. Board Assembly
WE01	YB00280360	Connective Cord, 4P			
WE02	YU03360260	Jumper Lead, 3P			
WE05	YU03360260	Jumper Lead, 3P			
		PE51-TONE DEFEAT SWITCH CIRCUIT BOARD			
PE51	YK176H2880 ZZ176H8880	P.W. Board, Tone Defeat Switch P.W. Board Assembly	CU05	OA10601610	PU01-CAPACITORS
SE51	SP02011420	Push Switch, Tone Defeat	CU06	OA10601610	Elect 10μF 16V
			CU07	OA10601610	Elect 10μF 16V
			CU08	OA10601610	Elect 10μF 16V
			DU01	HD20002000	PU01-SEMICONDUCTORS
			DU02	HD20002000	Diode 1SS133, etc.
			DU03	HD20002000	Diode 1SS133, etc.
			DU04	HD20002000	Diode 1SS133, etc.
			DU05	HD20002000	Diode 1SS133, etc.
			QU01	HC10022090	IC NJM2903D
			QU02	HC712301A0	IC 74LS123P

REF. DESIG.	PART NO.	DESCRIPTION
JU01 JU02	YP07001610 YP07001520	PU01-MISCELLANEOUS Plug, 11P Plug, 2P
PV01	YK176H1410 ZZ176H1410	PV01-PHONE INPUT SELECTOR CIRCUIT BOARD P.W. Board, Phone Input Selector P.W. Board Assembly
C401 C402 C403 C404 C405 C406 C407 C408 C409 C410	DF55101510 DF55101510 DF55681510 DF55681510 OA10800610 OA10800610 OF15473010 OF15473010 OF15103010 OF15103010	PV01-CAPACITORS Film 100pF ±5% Film 100pF ±5% Film 680pF ±5% Film 680pF ±5% Elect 1000μF 6.3V Elect 1000μF 6.3V Film 0.047μF ±5% Film 0.047μF ±5% Film 0.01μF ±5% Film 0.01μF ±5%
C411 C412 C413 C414 C415 C416 C417 C418 C419 C420	OF15332010 OF15332010 OA10505010 OA10505010 OF15392010 OF15392010 OA47701610 OA47701610 DK18103310 DK18103310	Film 3300pF ±5% Film 3300pF ±5% Elect 1μF 50V Elect 1μF 50V Film 3900pF ±5% Film 3900pF ±5% Elect 470μF 16V Elect 470μF 16V Ceramic 0.01μF +80% -20% Ceramic 0.01μF +80% -20%
CV01 CV08	DK18103310	Ceramic 0.01μF +80% -20%
R429 R430	NF02470140 NF02470140	PV01-RESISTORS 47Ω ±1% 1/4W, Fuse 47Ω ±1% 1/4W, Fuse
DV01 DV02 Q401	HD20001000 HD20001000	PV01-SEMICONDUCTORS Diode 1S1555, etc. Diode 1S1555, etc.
Q404 Q405	HF203691B0 HC10026090	F.E.T. 2SK369(BL) IC NJM2041DD
J401 J402 J403	YP06003330 YP06003330 YT02020610	PV01-MISCELLANEOUS Plug, 3P Plug, 3P Terminal, 2P; RCA
JV01 JV02 JV03 JV04 JV05 JV06	YT02020260 YT02060280 YJ06002390 YJ06002430 YJ06002440 YJ06002450	Terminal, 2P; RCA Terminal, 6P; RCA Jack, 5P Jack, 3P Jack, 4P Jack, 6P
LV01 LV02	LY20240230 LY20240230	Relay, CD Direct Relay, Phono Direct
SV01	SS040600200	Slide Switch
WV01 WV02	YU06140260 YU06120260	Jumper Lead, 6P Jumper Lead, 6P

REF. DESIG.	PART NO.	DESCRIPTION
PW01	YK176H3420 ZZ182H8420	PW01-SPEAKER PROTECTOR RELAY CIRCUIT BOARD P.W. Board, Speaker Protector Relay P.W. Board Assembly
CW01 CW02 CW03 CW04	OF15224010 OF15224010 OF15224010 OF15224010	PW01-CAPACITORS Film 0.22μF ±5% Film 0.22μF ±5% Film 0.22μF ±5% Film 0.22μF ±5%
RW01 RW02 RW03 RW04	GG05022120 GG05022120 GA05100030 GA05100030	PW01-RESISTORS 2.2Ω ±5% 1/4W 2.2Ω ±5% 1/4W 10Ω ±5% 3W 10Ω ±5% 3W
DW01 DW02	HD20002000 HD20002000	PW01-SEMICONDUCTORS Diode 1SS133, etc. Diode 1SS133, etc.
JW01 JW02 JW03	YT01040310 YT01040320 YJ07001100	PW01-MISCELLANEOUS Terminal, Speaker Terminal, Speaker Jack, 5P
LW01 LW02 LW03 LW04	LL23905120 LL23905120 LY20240260 LY20240260	Choke Coil Choke Coil Relay, Speaker Relay, Speaker
PW51	YK176H3430 ZZ182H8430	PW51-SPEAKER SWITCH/PHONE CIRCUIT BOARD P.W. Board, Speaker Switch/Phone P.W. Board Assembly
RW51 RW52	GA05122010 GA05122010	Resistor 1.2KΩ ±5% 1W Resistor 1.2KΩ ±5% 1W
JW51 SW51 WW51 WW52	YJ01002340 SP02020940 YU02320260 YU05360260	Jack, Headphone Push Switch, Speaker Jumper Lead, 2P Jumper Lead, 5P
PY01	YK176H2830 ZZ176H8830	PY01-INPUT SELECTOR DISPLAY CIRCUIT BOARD P.W. Board, Input Selector Display P.W. Board Assembly
DY01 DY07 DY08	HI10028320 HI10038030	L.E.D. GL9HD4 L.E.D. SLP281F-50U
JY01 JY02 WY01 WY02	YJ07001090 YJ06002440 YU04400260 YU05160260	Jack, 4P Jack, 4P Jumper Lead, 4P Jumper Lead, 5P

NOTE ON SAFETY :

Symbol **Δ** Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol **Δ**. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

(W01-99) (T01-99) (X01-00)	Assembly and Wiring Adjustment Correction
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(Model PM-64II)

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR

R***: (1) GD05 --- 140, Carbon film fixed resistor, $\pm 5\%$, 1/4W
 R***: (2) GD05 --- 160, Carbon film fixed resistor, $\pm 5\%$, 1/6W

①—Resistance value

Examples

① Resistance value

0.1Ω...001	100...100	1kΩ...102	100kΩ...104
0.5Ω...005	18Ω...180	2.7kΩ...272	680kΩ...684
1Ω...010	100Ω...101	10kΩ...103	1MkΩ...105
6.8Ω...068	390Ω...391	22kΩ...223	4.7MkΩ...475

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

C***: CERAMIC CAP.

(1) DD1 --- 370, Ceramic condenser
 Disc type
 ①② Temp. coeff. P350 ~ N1000, 50V


Examples

① Tolerance (Capacity deviation)

±0.25pF...0
±0.5pF...1
±5%...5

* Tolerance of COMMON PARTS handled here are as follows:

0.5pF ~ 5pF...±0.25pF
6pF ~ 10pF...±0.5pF
12pF ~ 560pF...±5%
② Capacity value
0.5pF...005 3pF...030 100pF...101
1pF...010 10pF...100 220pF...221
1.5pF...015 47pF...470 560pF...561

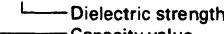
C***: CERAMIC CAP.

(1) DK16 --- 300, High dielectric constant ceramic condenser
 Disc type
 ① Temp. chara. 2B4, 50V


Example

② Capacity value
 100pF...101 1000pF...102 10000pF...103
 470pF...471 2200pF...222

C***: ELECTROLY CAP. ($\frac{1}{2}$), FILM CAP. ($\frac{1}{4}$)

(1) EA --- 10, Electrolytic condenser
 One-way lead type, Tolerance ±20%
 ①②


Examples

① Capacity value
 0.1μF...104 4.7μF...475 100μF...107
 0.33μF...334 10μF...106 330μF...337
 1μF...105 22μF...226 1100μF...108
 2200μF...228

② Working voltage
 6.3V...006 25V...025
 10V...010 35V...035
 16V...016 50V...050

(2) DF15 --- 350, Plastic film condenser
 One-way type, Mylar ±5% 50V
 ①


Examples

① Capacity value
 0.001μF (1000pF)...102 0.1μF...104
 0.0018μF.....182 0.56μF...564
 0.01μF.....103 1μF...105
 0.015μF.....153

REF. DESIG.	PART NO.	DESCRIPTION
P701	YK176H3410 ZZ175H8410 ZZ175H7410	P701-MAIN AMP CIRCUIT BOARD P.W. Board, Main Amp P.W. Board Assembly [N, A] P.W. Board Assembly [E, G]
CN01	OA47505010	P701-CAPACITORS
CN02	OA47505010	Elect 4.7μF 50V
CN04	OA22601610	Elect 4.7μF 50V
CN05	OA22601610	Elect 22μF 16V
CN81	OA47703510	Elect 22μF 16V
CN82	OA47703510	Elect 470μF 35V
CN83	OA33703510	Elect 470μF 35V
CN84	OA33703510	Elect 330μF 35V
CN85	OA22701610	Elect 330μF 35V
CN86	OA22701610	Elect 220μF 16V
CN89	DK18103560	Elect 220μF 16V
CN90	DK18103560	Ceramic 0.01μF [N, A] Ceramic 0.01μF [N, A]
C701	OF15272010	Film 2700pF ±5%
C702	OF15272010	Film 2700pF ±5%
C703	OA10605010	Elect 10μF 50V
C704	OA10605010	Elect 10μF 50V
C705	OA22700610	Elect 220μF 6.3V
C706	OA22700610	Elect 220μF 6.3V
C707	OF15152010	Film 1500pF ±5%
C708	OF15152010	Film 1500pF ±5%
C709	DF55221510	Film 220pF ±5%
C710	DF55221510	Film 220pF ±5%
C711	DF35120520	Mica 12pF ±5%
C712	DF35120520	Mica 12pF ±5%
C713	OA22710010	Elect 220μF 100V
C714	OA22710010	Elect 220μF 100V
C715	OA10701610	Elect 100μF 16V
C716	OA10701610	Elect 100μF 16V
C717	DF35101520	Mica 100pF ±5%
C718	DF35101520	Mica 100pF ±5%
C719	DF31100520	Mica 10pF ±0.5pF
C720	DF31100520	Mica 10pF ±0.5pF
C751	DF55151090	Film 150pF ±5%
C752	DF55151090	Film 150pF ±5%
C753	OA10510010	Elect 1μF 100V
C754	OA10510010	Elect 1μF 100V
C755	OF15103010	Film 0.01μF ±5%
C756	OA33706310	Elect 330μF 63V
C757	OA33706310	Elect 330μF 63V
P701-RESISTORS (All Resistors are ±5% and 1/4W)		
1KΩ		
22Ω [E, G]		
22Ω, Fuse ±2% [N, A]		
1.2Ω, Fusible		
1.2Ω, Fusible		
10Ω 1/4W		
10Ω 1/4W		
10Ω, Fuse		

REF. DESIG.	PART NO.	DESCRIPTION		
RN86	NF02100140	10Ω, Fuse		
RN89	GA05560010	56Ω	1W [E, G, F]	
RN90	GA05222010	2.2KΩ	1W	
RN91	GA05222010	2.2KΩ	1W	
R707	NF02821140	820Ω, Fuse	±2% [N, A]	
R708	NF02821140	820Ω, Fuse	±2% [N, A]	
R713	GG05153120	15KΩ	½W	
R714	GG05153120	15KΩ	½W	
R719	RA04710750	470Ω, Trimming		
R720	RA04710750	470Ω, Trimming		
R721	GG05181140	180Ω		
R722	GG05181140	180Ω		
R723	GG05181140	180Ω		
R724	GG05181140	180Ω		
R725	GG05122140	1.2KΩ		
R726	GG05122140	1.2KΩ		
R727	GA05181020	180Ω	2W	
R728	GA05181020	180Ω	2W	
R729	{			
R736	GG05100140	10Ω		
R737	BW10000080	0.18Ωx2	±10%	5W
R738	BW10000080	0.18Ωx2	±10%	5W
R739	BW10000080	0.18Ωx2	±10%	5W
R740	BW10000080	0.18Ωx2	±10%	5W
R741	GG05220140	22Ω		
R742	GG05220140	22Ω		
R755	GG05047140	4.7Ω		
R756	GG05047140	4.7Ω		
P701-SEMICONDUCTORS				
DN01	HD20014010	Diode	1SS81	
DN02	HD20014010	Diode	1SS81	
DN03	HD20014010	Diode	1SS81	
DN04	HD20014010	Diode	1SS81	
DN05	HD20022030	Diode	DSF10C	
DN81	{			
DN88	HD20022030	Diode	DSF10C	
D701	HD20014010	Diode	1SS81	
D702	HD20014010	Diode	1SS81	
D703	HD20014010	Diode	1SS81	
D704	HD20014010	Diode	1SS81	
D705	{			
D710	HD20002000	Diode	1SS133; etc.	
D711	HD30001020	Zener	MA1033M	
D712	HD30001020	Zener	MA1033M	
D713	HD30001020	Zener	MA1033M	
D714	HD30001020	Zener	MA1033M	
D751	HD20027100	Diode	30DF-2	
D752	HD20027100	Diode	30DF-2	
QN01	HT322401A0	Transistor	2SC2240(GR)	
QN02	HT322401A0	Transistor	2SC2240(GR)	
QN03	HT109701A0	Transistor	2SA970(GR)	
QN04	HT109701A0	Transistor	2SA970(GR)	
QN05	HT322401A0	Transistor	2SC2240(GR)	
QN06	HT109701A0	Transistor	2SA970(GR)	
QN07	HC10042050	IC	TA7317P	
QN81	HC38515090	IC	NJM78M15A	
QN82	HC39515090	IC	NJM79M15A	

REF. DESIG.	PART NO.	DESCRIPTION		
Q701	HT339640A0	Transistor	2SC3964	
Q702	HT339640A0	Transistor	2SC3964	
Q703	HT322292A0	Transistor	2SC2229(O, Y)	
Q704	HT322292A0	Transistor	2SC2229(O, Y)	
Q705	HT109492A0	Transistor	2SA949(O, Y)	
Q706	HT109492A0	Transistor	2SA949(O, Y)	
Q707	HT332982D0	Transistor	2SC3298(O, Y)	
Q708	HT332982D0	Transistor	2SC3298(O, Y)	
Q709	HT113062D0	Transistor	2SA1306(O, Y)	
Q710	HT113062D0	Transistor	2SA1306(O, Y)	
Q711	HT331822A0	Transistor	2SC3182(O, R)	
Q712	HT331822A0	Transistor	2SC3182(O, R)	
Q713	HT112652A0	Transistor	2SA1265(O, R)	
Q714	HT112652A0	Transistor	2SA1265(O, R)	
Q715	HT331822A0	Transistor	2SC3182(O, R)	
Q716	HT331822A0	Transistor	2SC3182(O, R)	
Q717	HT112652A0	Transistor	2SA1265(O, R)	
Q718	HT112652A0	Transistor	2SA1265(O, R)	
Q719	HC10181030	IC	STK-3102MARK3	
Q751	HT322401A0	Transistor	2SC2240(GR)	
Q752	HT109701A0	Transistor	2SA970(GR)	
Q753	HT109701A0	Transistor	2SA970(GR)	
Q754	HT322401A0	Transistor	2SC2240(GR)	
Q755	HT329832A0	Transistor	2SC2983(O, Y)	
Q756	HT112252A0	Transistor	2SA1225(O, Y)	
Q757	HT113862A0	Transistor	2SA1386(R, Q)	
Q758	HT335192A0	Transistor	2SC3519(O, R, Y)	
JN81	YJ06002440	P701-MISCELLANEOUS		
JN82	YJ06002430	Jack, 4P		
JN83	YJ06002430	Jack, 3P		
J701	YP06003440	Plug, 4P		
J751	176H005010	Clamper, Wire		
J752	176H005010	Clamper, Wire		
J754	176H005010	Clamper, Wire		
J756	176H005010	Clamper, Wire		
J758	176H005010	Clamper, Wire		
J759	176H005010	Clamper, Wire		
WN81	YU03520260	Jumper Lead, 3P		
WV03	YU03580260	Jumper Lead, 3P		
P801	YK176H1430	P801-DIODE BRIDGE CIRCUIT BOARD		
	ZZ175H1430	P.W. Board, Diode Bridge		
		P.W. Board Assembly		
C805	DK18103560	Ceramic Cap.	0.01μF	+80% -20% (PM-64MKII)
C806	DK18103560	Ceramic Cap.	0.01μF	+80% -20% (PM-64MKII)
△D801	HD20033030	Diode	DS303C	
△D804				
△D805	HD20030100	Diode	30D-2	
△D808				
J801	YP06000580	Plug, 5P		
J802	YP07001600	Plug, 10P		

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
P851	YK176H1440 ZZ175H1440	P851-POWER SUPPLY CIRCUIT BOARD P.W. Board, Power Supply P.W. Board Assembly	RE39	NF02100140	PE50-RESISTORS
△ C851 △ C852 △ C853 △ C854	EB12906310 EB12906310 EB82804010 EB82804010	Elect Cap. 12000 μ F 63V Elect Cap. 12000 μ F 63V Elect Cap. 8200 μ F 40V Elect Cap. 8200 μ F 40V	RE40	NF02100140	10 Ω ±5% 1/4W, Fuse 10 Ω ±5% 1/4W, Fuse
PE01	YK175H1060 ZZ175H8060	PE01-TONE VOLUME(L) CIRCUIT BOARD P.W. Board, Tone Volume(L) P.W. Board Assembly	DE01	HD60001160	PE50-SEMICONDUCTORS
CE11 CE13 CE15 CE17 CE19	OF15153010 OA10405010 OF15393010 OA47405010 OA47601010	Film 0.015 μ F ±5% Elect 0.1 μ F 50V Film 0.039 μ F ±5% Elect 0.47 μ F 50V Elect 47 μ F 10V	DE02	HD60001160	C.R. Diode E-452 C.R. Diode E-452
RE41 RE42	RK01030630 RK01030630	Variable Resistor 10KΩ(C), Treble Variable Resistor 10KΩ(C), Bass	QE01 QE02 QE03 QE04 QE05	HF203691B0 HF203691B0 HF203691B0 HF203691B0 HC10026090	F.E.T. 2SK369(BL) F.E.T. 2SK369(BL) F.E.T. 2SK369(BL) F.E.T. 2SK369(BL) IC NJM2041DD
WE05	YB00220230	Connective Cord, 3P	JE02 JE03 JE04 JE05 JE06	YJ06002440 YP06003440 YP06003440 YP06003330 YP06003330	PE50-MISCELLANEOUS Jack, 4P Plug, 4P Plug, 4P Plug, 3P Plug, 3P
PE02	YK175H1070 ZZ175H8070	PE02-TONE VOLUME(R) CIRCUIT BOARD P.W. Board, Tone Volume(R) P.W. Board Assembly	WE01	YB00280360	Connective Cord, 2P
CE12 CE14 CE16 CE18 CE20	OF15153010 OA10405010 OF15393010 OA47405010 OA47601010	Film Cap. 0.015 μ F ±5% Elect Cap. 0.1 μ F 50V Film Cap. 0.039 μ F ±5% Elect Cap. 0.47 μ F 50V Elect Cap. 47 μ F 10V	PE51	YK175H1090 ZZ175H8090	PE51-TONE DEFEAT SWITCH CIRCUIT BOARD P.W. Board, Tone Defeat Switch P.W. Board Assembly
RE37 RE38	RK01030630 RK01030630	Variable Resistor 10KΩ(C), Treble Variable Resistor 10KΩ(C), Bass	SE51 WE03 WE04	SPO2011420 YB00240150 YB00260220	Push Switch, Tone Defeat Connective Cord, 4P Connective Cord, 4P
WE06	YB00160260	Connective Cord, 3P	PJ01	YK176H1420 ZZ176H1420	PJ01-TAPE MONITOR CIRCUIT BOARD P.W. Board, Tape Monitor P.W. Board Assembly
PE50	YK175H1020 ZZ175H8020	PE50-TONE UNIT CIRCUIT BOARD P.W. Board, Tone Unit P.W. Board Assembly	CJ01 CJ08	DK18103310	Ceramic Cap. 0.01 μ F +80% -20%
CE01 CE02 CE03 CE04 CE05 CE06 CE07 CE08 CE09 CE10	DF35220520 DF35220520 OF15182010 OF15182010 DF35560520 DF35560520 OA22700610 OA22700610 DF35101520 DF35101520	Mica 22pF ±5% Mica 22pF ±5% Film 1800pF ±5% Film 1800pF ±5% Mica 56pF ±5% Mica 56pF ±5% Elect 220 μ F 6.3V Elect 220 μ F 6.3V Mica 100pF ±5% Mica 100pF ±5%	JJ01 JJ02 JJ03 JJ04	YT02040690 YT02040690 YJ06002460 YJ06002460	Terminal, 4P; RCA Terminal, 4P; RCA Jack, 7P Jack, 7P
CE21 CE22 CE23 CE24 CE25 CE26 CE27 CE28	OA22601610 OA22601610 OF15332010 OF15332010 OA22701610 OA22701610 OA22701610 OA22701610	Elect 22 μ F 16V Elect 22 μ F 16V Film 3300pF ±5% Film 3300pF ±5% Elect 220 μ F 16V Elect 220 μ F 16V Elect 220 μ F 16V Elect 220 μ F 16V	PP01 △ F001 JP01 JP02 JP03	YK175H1080 FS10800600 YJ08000170 YJ08000170 YP06003400	PP01-FUSE/AC OUTLET CIRCUIT BOARD(PM-74D) P.W. Board, Fuse/AC Outlet Fuse 8A 250V [F] Jack, Fuse Clip [F] Jack, Fuse Clip [F] Plug, 2P [F]

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
PS01	YK175H1010 ZZ175H8010	PS01-VOLUME/PUSH SWITCH CIRCUIT BOARD P.W. Board, Volume/Push Switch P.W. Board Assembly	DU01	HD20011050	PU01-SEMICONDUCTORS
CS03	OA10405010	Elect Cap. 0.1μF 50V	DU02	HD20011050	Diode 1S1555
CS04	OA10405010	Elect Cap. 0.1μF 50V	DU03	HD20011050	Diode 1S1555
RS07	GA05122010	Resistor 1.2KΩ ±5% 1W	DU04	HD20011050	Diode 1S1555
RS11	RM01040940	Variable Resistor 100KΩ(MN)	DU05	HD30001020	Zener MA1033
SS01	SP04030380	Push Switch	DU06	HD30001020	Zener MA1033
SS02	SP04030370	Push Switch	DU07	HD30004020	Zener MA1051
SS03	SP04010520	Push Switch	DU08	HD20002000	Diode 1SS133, etc.
WJ03	YU07480260	Jumper Lead, 7P	DU09	HD20002000	Diode 1SS133, etc.
WJ04	YU07400260	Jumper Lead, 7P	QU01	HC10009090	PU01-SEMICONDUCTORS
WS01	YB00201370	Connective Cord, 3P	QU02	HC712301A0	IC NJM2901
WS02	YB00201360	Connective Cord, 3P	QU03	HW10005320	IC 74LS123P
WS03	YB00250380	Connective Cord, 2P	QU04	HT327852C0	Photo Unit PC847
WS04	YB00250390	Connective Cord, 2P	QU05	HT327852C0	Transistor 2SC2785(HF, FF)
WS05	YU04120260	Jumper Lead, 4P	JU01	YP07001610	Transistor 2SC2785(HF, FF)
WV05	YU04220260	Jumper Lead, 4P	JU02	YP07001520	PU01-MISCELLANEOUS
WV06	YU06140260	Jumper Lead, 6P	PV01	YK176H1410 ZZ175H1410	Plug, 11P
WV07	YU04280260	Jumper Lead, 4P			Plug, 2P
WY03	YU04090260	Jumper Lead, 4P			PV01-PHONE INPUT SELECTOR CIRCUIT BOARD
					P.W. Board, Phone Input Selector
					P.W. Board Assembly
PS02	YK175H10AO ZZ175H80AO	PS02-MASTER VOLUME CIRCUIT BOARD P.W. Board, Master Volume P.W. Board Assembly	C401	DF55101510	PV01-CAPACITORS
CS01	OF15102010	Film Cap. 1000pF ±5%	C402	DF55101510	Film 100pF ±5%
CS02	OF15102010	Film Cap. 1000pF ±5%	C403	DF55681510	Film 100pF ±5%
RS10	RM05031270	Variable Resistor 50KΩ(B)	C404	DF55681510	Film 680pF ±5%
JS01	YP06003410	Plug, 2P	C405	OA22800610	Film 680pF ±5%
JS02	YP06003410	Plug, 2P	C406	OA22800610	Elect 2200μF 6.3V
WE02	YU04070260	Jumper Lead, 4P	C407	OF15473010	Elect 2200μF 6.3V
PU01	YK175H1040 ZZ175H8040	PU01-AVSS CIRCUIT BOARD P.W. Board, AVSS P.W. Board Assembly	C408	OF15473010	Film 0.047μF ±5%
CU03	OA10601610	PU01-CAPACITORS Elect 10μF 16V	C409	OF15103010	Film 0.047μF ±5%
CU04	OA10601610	Elect 10μF 16V	C410	OF15103010	Film 0.01μF ±5%
CU07	OA10601610	Elect 10μF 16V	C411	OF15332010	Film 0.01μF ±5%
CU08	OA10601610	Elect 10μF 16V	C412	OF15332010	Film 3300pF ±5%
CU09	OA10601610	Elect 10μF 16V	C413	OA10601610	Elect 10μF 16V
CU14	OA10601610	Elect 10μF 16V	C414	OA10601610	Elect 10μF 16V
RU21	GG05221120	PU01-RESISTORS 220Ω ±5% ½W	C415	OF15392010	Film 3900pF ±5%
RU33	RA01030760	10KΩ, Trimming	C416	OF15392010	Film 3900pF ±5%
RU34	RA01030760	10KΩ, Trimming	C417	OA47701610	Elect 470μF 16V
RU35	RA01030760	10KΩ, Trimming	C418	OA47701610	Elect 470μF 16V
RU36	RA01030760	10KΩ, Trimming	C419	DK18103310	Ceramic 0.01μF +80% -20%
			C420	DK18103310	Ceramic 0.01μF +80% -20%
			CV01	DK18103310	PV01-RESISTORS
			CV08	DK18103310	47Ω ±1% ¼W, Fuse
			R429	NF02470140	47Ω ±1% ¼W, Fuse
			R430	NF02470140	PV01-SEMICONDUCTORS
			D401	HD60001160	C.R. Diode E-452
			D402	HD60001160	C.R. Diode E-452
			DV01	HD20022030	Diode DSF10C
			DV02	HD20022030	Diode DSF10C
			Q401	HF203691B0	F.E.T. 2SK369(BL)
			Q404	HC10026090	IC NJM2041DD
			Q405	HC10026090	

REF. DESIG.	PART NO.	DESCRIPTION	REF. DESIG.	PART NO.	DESCRIPTION
J401 J402 J403	YP06003330 YP06003330 YT02020610	PV01-MISCELLANEOUS Plug, 3P Plug, 3P Terminal, 2P; RCA	JW01 JW02 JW03 JW04 JW13	YT01040360 YT01040370 YP06001040 YP06001040 YJ07001100	PW01-MISCELLANEOUS Terminal, Speaker Terminal, Speaker Plug, 3P Plug, 3P Jack, 5P
JV01 JV02 JV03 JV04 JV05 JV06 JV07 JV09 JV10	YT02020260 YT02060280 YJ06002390 YJ06002430 YJ06002440 YJ06002450 YJ06002440 YJ06002450 YJ06002390	Terminal, 2P; RCA Terminal, 6P; RCA Jack, 5P Jack, 3P Jack, 4P Jack, 6P Jack, 4P Jack, 6P Jack, 5P	LW01 LW02 LW03 LW04	LJ31.115080 LJ31115080 LY20240190 LY20240190	Choke Coil Choke Coil Relay, Speaker Relay, Speaker
LV01 LV02	LY20240230 LY20240230	Relay, CD Direct Relay, Phono Direct	PW51	YK176H3430 ZZ175H8430	PW51-SPEAKER SWITCH/PHONE CIRCUIT BOARD P.W. Board, Speaker Switch/Phone P.W. Board Assembly
SV01 SV02	SS04060020 SS04060010	Slide Switch Slide Switch	RW51 RW52	GA05122010 GA05122010	Resistor 1.2KΩ ±5% 1W Resistor 1.2KΩ ±5% 1W
W401 W402	YB00370060 YB00370070	Connective Cord, 3P Connective Cord, 3P	JW51	YJ01002340	Jack, Headphone
WV01 WV02 WV04	YU06140260 YU06120260 YU05100260	Jumper Lead, 6P Jumper Lead, 6P Jumper Lead, 5P	SW51 WW51 WW52	SP02020940 YU02380260 YU05400260	Push Switch, Speaker Jumper Lead, 2P Jumper Lead, 5P
PW01	YK175H1050 ZZ175H8050	PW01-SPEAKER PROTECTOR RELAY CIRCUIT BOARD P.W. Board, Speaker Protector Relay P.W. Board Assembly	PY01	YK175H1030 ZZ175H8030	PY01-INPUT SELECTOR DISPLAY CIRCUIT BOARD P.W. Board, Input Selector Display P.W. Board Assembly
CW01 CW02 CW03 CW04	OF15224010 OF15224010 OF15224010 OF15224010	PW01-CAPACITORS Film 0.22μF ±5% Film 0.22μF ±5% Film 0.22μF ±5% Film 0.22μF ±5%	DY01 DY07 DY08	HI10028320 HI10038030	L.E.D. GL9HD4 L.E.D. SLP281F-50U
RW01 RW02 RW03 RW04 RW05 RW06	GG05022120 GG05022120 GA05100030 GA05100030 GA05331030 GA05331030	PW01-RESISTORS 2.2Ω ±5% ½W 2.2Ω ±5% ½W 10Ω ±5% 3W 10Ω ±5% 3W 330Ω ±5% 3W 330Ω ±5% 3W	JS05 JY01 JY02 JY03	YJ06002440 YJ07001090 YJ06002440 YJ06002440	Jack, 4P Jack, 4P Jack, 4P Jack, 4P
DW01 DW02	HD20022030 HD20022030	PW01-SEMICONDUCTORS Diode DSF10C Diode DSF10C	WY01 WY02	YU04400260 YU05180260	Jumper Lead, 4P Jumper Lead, 5P

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY :

Symbol Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

9. TECHNICAL SPECIFICATIONS

(Model PM-54II)

AUDIO SECTION

IHF Dynamic Power

4 OHMS	140 W
8 OHMS	100 W

POWER OUTPUT PER CHANNEL

DIN 4 OHMS	100 W
RMS 4 OHMS (20 Hz – 20 kHz)	70 W
DIN 8 OHMS AT 1 kHz	80 W
RMS 8 OHMS (20 Hz – 20 kHz)	60 W

TOTAL HARMONIC DISTORTION AT RMS 8 OHMS

0.02 %

I.M. DISTORTION

0.02 %

DAMPING FACTOR 8 OHMS (1 kHz)

100

MM CARTRIDGE INPUT

Frequency Response (IEC RIAA)	±0.5 dB
Signal-to-Noise Ratio (IEC A weighted)	86 dB
Input Impedance	47 k ohms
Input Capacitance	200 pF
Input Sensitivity	2.5 mV
Equivalent Input Noise	0.25 µV
Dynamic Range	113 dB

MC CARTRIDGE INPUT

Input Sensitivity	250 µV
Input Impedance	100 ohms

CD-TUNER-TAPE INPUT

Input Impedance	20 k ohms
Input Sensitivity	150 mV
Frequency Response +0, -1 dB	10 Hz ~ 70 kHz
Signal to Noise Ratio (IEC A weighted)	96 dB

OUTPUT VOLTAGE

Tape Out [PHONO (MM) 7.75 mV]	465 mV
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OUTPUT IMPEDANCE

Tape Out	220 ohms
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GENERAL

Power Requirements N and T versions	220/240 V AC, 50/60 Hz
E version	110/120/220/240 V AC, 50/60 Hz
Power Consumption at Rated Output, both Channels Operating	250 W
Dimensions	
Panel Width	416 mm
Panel Height	118 mm
Depth	334 mm
Weight	
Unit Alone	9.5 kg

(Model PM-64II)

AUDIO SECTION

IHF Dynamic Power

4 OHMS	225 W
8 OHMS	146 W

POWER OUTPUT PER CHANNEL

DIN 4 OHMS	160 W
RMS 4 OHMS (20 Hz - 20 kHz)	105 W
DIN 8 OHMS AT 1 kHz	115 W
RMS 8 OHMS (20 Hz - 20 kHz)	100 W

TOTAL HARMONIC DISTORTION AT RMS 8 OHMS	0.02 %
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I.M. DISTORTION	0.02 %
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DAMPING FACTOR 8 OHMS (1 kHz)	100
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MM CARTRIDGE INPUT

Frequency Response (IEC RIAA)	±0.5 dB
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Signal-to-Noise Ratio (IEC A weighted)	86 dB
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Input Impedance	47 k ohms
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Input Capacitance	200 pF
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Input Sensitivity	2.5 mV
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Equivalent Input Noise	0.25 µV
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Dynamic Range	113 dB
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MC CARTRIDGE INPUT

Input Sensitivity	250 µV
-----------------------------	--------

Input Impedance	100 ohms
---------------------------	----------

CD-TUNER-TAPE INPUT

Input Impedance	20 k ohms
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Input Sensitivity	150 mV
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Frequency Response +0, -1 dB	10 Hz ~ 70 kHz
--	----------------

Signal to Noise Ratio (IEC A weighted)	96 dB
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OUTPUT VOLTAGE

Tape Out [PHONO (MM) 7.75 mV]	465 mV
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OUTPUT IMPEDANCE

Tape Out	220 ohms
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GENERAL

Power Requirements N and T versions	220/240 V AC, 50/60 Hz
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E version	110/120/220/240 V AC, 50/60 Hz
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Power Consumption at Rated Output, both Channels Operating	380 W
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Dimensions

Panel Width	416 mm
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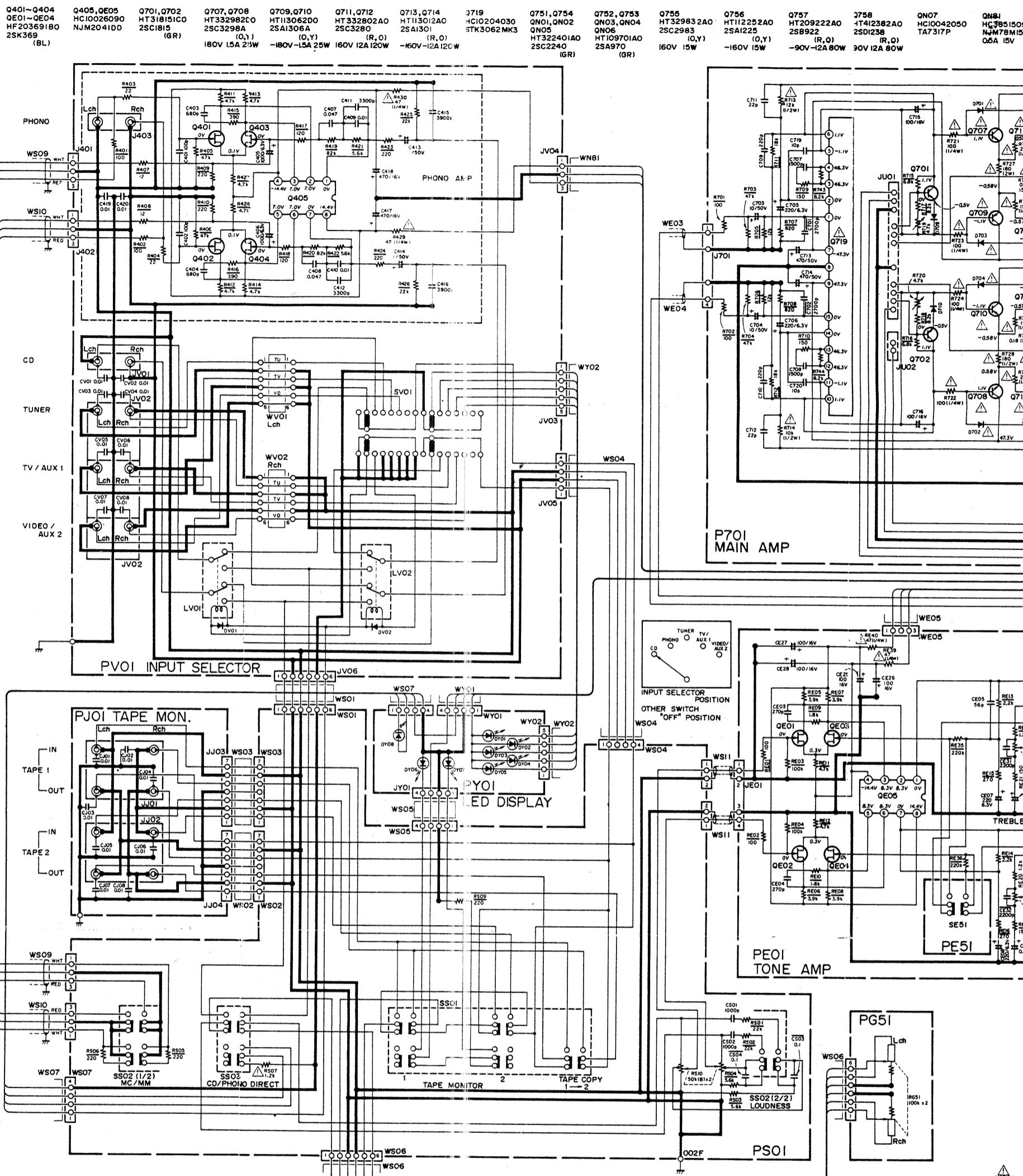
Panel Height	146 mm
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Depth	334 mm
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Weight

Unit Alone	12.5 kg
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0. SCHEMATIC DIAGRAM



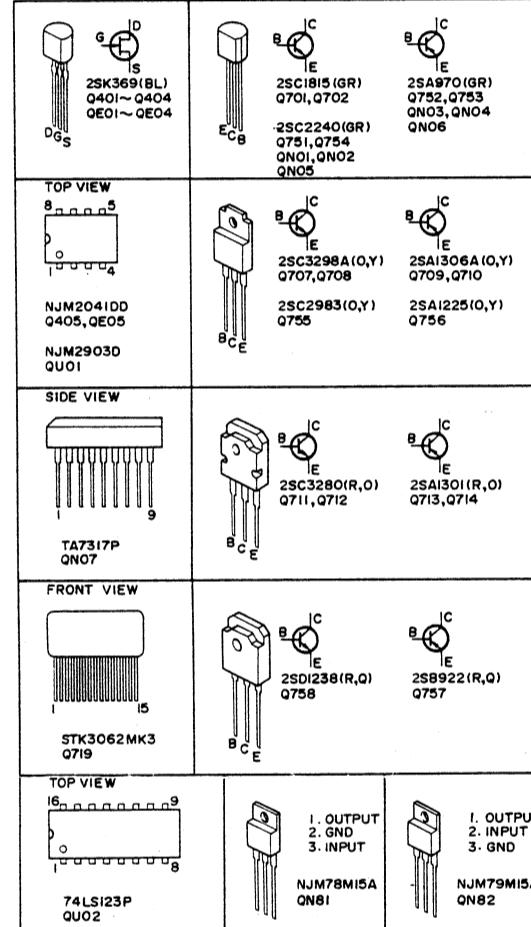
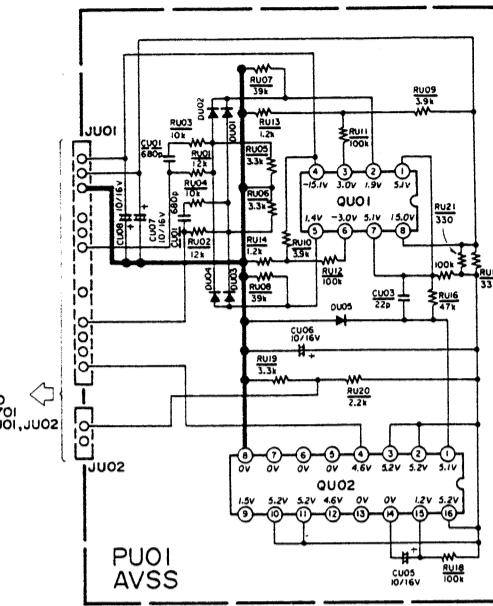
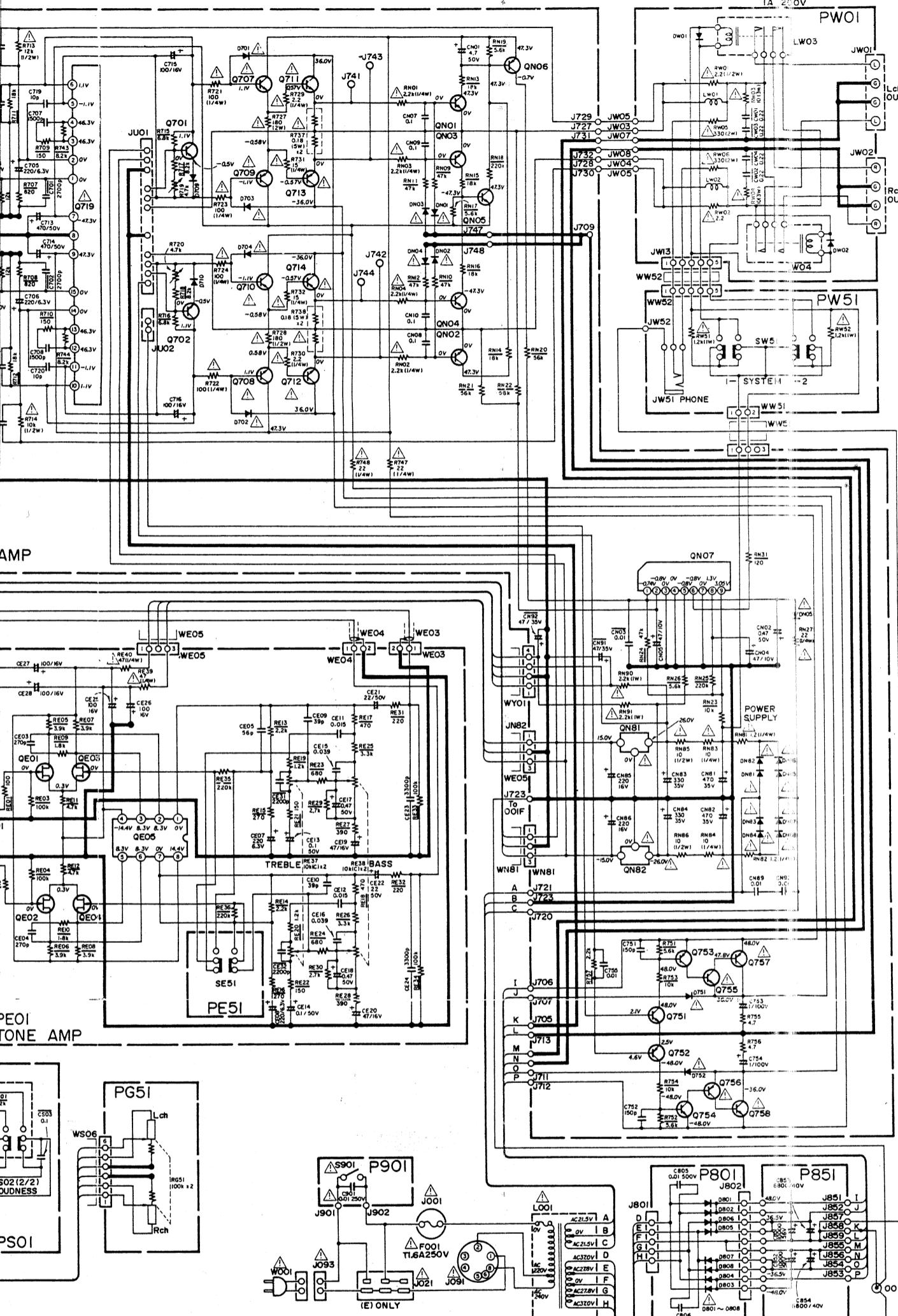
F001	FS10200850	FUSE 2A 250V
L001	TS18507050	POWER TRANSFORMER [N, A]
	TS18507060	POWER TRANSFORMER [E]
S002	SR00050210	ROTARY SWITCH
RE37	RM01030310	VARIABLE 10KΩ TREBLE
RE38	RM01030310	VARIABLE 10KΩ BASS
SE51	SP02011420	PUSH SWITCH DEFEAT
RG51	RM01040890	VARIABLE 100KΩ BALANCE
RS10	RM05031250	VARIABLE 50KΩ MAIN
SS01	SP04030360	PUSH SWITCH TAPE MONITOR
SS02	SP04020500	PUSH SWITCH LOUDNESS
SS03	SP04010520	PUSH SWITCH CD DIRECT
LV01	LY20240230	RELAY CD DIRECT
LV02	LY20240230	RELAY PHONO DIRECT
SV01	SS04060020	SLIDE SWITCH
LW03	LY20240260	RELAY SPEAKER
LW04	LY20240260	RELAY SPEAKER
SW51	SP02020940	PUSH SWITCH SPEAKER
R719	RA04720750	TRIMMING 4.7KΩ
R720	RA04720750	TRIMMING 4.7KΩ
S901	SP01011100	PUSH SWITCH POWER

NOTE ON SAFETY :

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Components and wiring are subject to change for modification w

Model PM-54II



**"SERVICE INFORMATION IS FOR USE BY QUALIFIED PERSONNEL ONLY –
ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY
REPAIR BY ANY MARANTZ SERVICE CENTRE..."**

Kind of Common Parts

RE~~SISTOR~~

R*** (1) GD05 --- 140. Carbon film fixed resistor, $\pm 5\%$ 1/4W
R*** (2) GD05 --- 160. Carbon film fixed resistor, $\pm 5\%$ 1/6W

C*** : CERAMIC CAP

(1) DD1 ---- 370, Ceramic condenser,
disc type (titan condenser)
Temp. coeff. P350 ~ N1000 50%

C*** : CERAMIC CAP.
(1) DK16 - - - 300, High dielectric constant ceramic condenser,
disc type (titan variable)
Temp chara. 2B4, 50V

C*** : ELECTROLY CAP. (左) / FILM CAP. (右)

(1) EA ----- 10, Electrolytic condenser,
one-way lead type, tolerance $\pm 20\%$
(2) DF15 - - 350, Plastic film condenser,
one-way type, Mylar, $\pm 5\%$ 50V

* In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES"